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American  
Chemistry  
Council

November 18, 2003

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→ Jaden

Dear Mr. Auer:

The American Chemistry Council makes available to the public and appropriate government agencies final reports of environmental, health, and safety research that it manages. In keeping with this policy, the following report that the American Chemistry Council's Oxo Process Panel recently conducted is enclosed:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

The report does not include confidential information.

If you have any questions, please call Barbara Francis of my staff at (703) 741-5609.

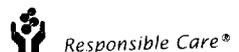
Contain No CBI Sincerely yours,  
*C. M. Price*

Enclosure

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**FINAL REPORT**

Volume 1 of 10  
(Text and Summary Tables 1-124)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**COMPLIANCE STATEMENT**

This study, designated WIL-186013, was conducted in compliance with the United States Environmental Protection Agency (EPA) Good Laboratory Practice Standards (40 CFR Parts 160 and 792), October 16, 1989 and September 18, 1989, respectively; the standard operating procedures of WIL Research Laboratories, Inc., and the protocol as approved by the sponsor.

The protocol was designed to be in general accordance with the United States Environmental Protection Agency (EPA) Office of Prevention, Pesticides and Toxic Substances (OPPTS) Health Effects Test Guidelines 870.3800, Reproduction and Fertility Effects, August 1998.

  
\_\_\_\_\_  
Mark D. Nemcc, B.S., D.A.B.T.  
Director, Developmental and  
Reproductive Toxicology  
Study Director

11/13/2003  
\_\_\_\_\_  
Date

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Sponsor Representative

\_\_\_\_\_  
Date

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Applicant/Submitter

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Date

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## **1. SUMMARY**

### **1.1. OBJECTIVE**

This study was conducted to evaluate the potential adverse effects of whole-body inhalation exposure of F<sub>0</sub> and F<sub>1</sub> parental animals to isobutanol on the reproductive capabilities, encompassing growth, mating, parturition and lactation, of the F<sub>0</sub> and F<sub>1</sub> generations and F<sub>1</sub> and F<sub>2</sub> neonatal survival, growth, and development. One litter per dam was produced in each generation.

### **1.2. STUDY DESIGN**

Groups of male and female Crl:CD<sup>®</sup>(SD)IGS BR rats (30/sex/group) were exposed to either clean filtered air or vapor atmospheres of the test article for six hours daily, seven days a week, for at least 70 consecutive daily exposures prior to mating. F<sub>0</sub> animals were approximately seven weeks of age at the beginning of exposure; offspring selected to become the F<sub>1</sub> generation began exposure at weaning. Exposure of the F<sub>0</sub> and F<sub>1</sub> males continued throughout mating, and through the day prior to euthanasia. The F<sub>0</sub> and F<sub>1</sub> females continued to be exposed throughout mating and gestation through gestation day 20. After parturition, exposure of the F<sub>0</sub> and F<sub>1</sub> females was re-initiated on lactation day 5 and continued through the day prior to euthanasia.

Target test article concentrations were 500, 1000 and 2500 ppm (parts per million). Mean overall analyzed exposure concentrations were 500, 1008 and 2522 ppm (1476, 2975 and 7444 mg/m<sup>3</sup>, respectively) for the F<sub>0</sub> generation and 494, 1012 and 2521 ppm (1458, 2987 and 7442 mg/m<sup>3</sup>, respectively) for the F<sub>1</sub> generation. Target concentrations were selected based on a previous range-finding study (WIL-186023<sup>1</sup>). Exposure concentrations in that study were 100, 250, 1000 and 2500 ppm. The only test article-related effects were reductions in F<sub>1</sub> pup mean body weights and body weight gains. No evidence of F<sub>0</sub> systemic or reproductive toxicity was observed at those exposure levels.

All animals were observed twice daily for appearance and behavior. Clinical observations, body weights, and food consumption were recorded at appropriate intervals

prior to mating and during gestation and lactation. All F<sub>0</sub> and F<sub>1</sub> females were allowed to deliver and rear their pups until weaning on lactation day 28 (F<sub>0</sub>) or lactation day 21 (F<sub>1</sub>). For both generations (F<sub>1</sub> and F<sub>2</sub>) eight pups per litter (four per sex, when possible) were selected on postnatal day (PND) 4 to reduce the variability among the litters. Direct exposure of the F<sub>1</sub> animals was initiated on PND 28. Offspring (30/sex/group) from the pairing of the F<sub>0</sub> animals were selected prior to weaning (PND 28) to constitute the F<sub>1</sub> generation. Developmental landmarks (balanopreputial separation and vaginal patency) were evaluated for the selected F<sub>1</sub> rats. Unselected F<sub>1</sub> pups were necropsied on PND 28, 34, 36 or 37, and F<sub>2</sub> pups were necropsied on PND 21. Selected organs were weighed for pups that were necropsied on PND 28 (F<sub>1</sub>) or PND 21 (F<sub>2</sub>). Each surviving F<sub>0</sub> and F<sub>1</sub> parental animal received a complete detailed gross necropsy following the completion of weaning of the F<sub>1</sub> and F<sub>2</sub> pups, respectively; selected organs were weighed. Spermatogenic endpoints (sperm motility, morphology and numbers) were recorded for all F<sub>0</sub> and F<sub>1</sub> males, and ovarian primordial follicle counts and corpora lutea counts were recorded for all F<sub>1</sub> females in the control and high-exposure groups. Designated tissues from ten F<sub>0</sub> and F<sub>1</sub> parental animals/sex/group and from all parental animals that were euthanized *in extremis* or failed to breed, conceive or deliver offspring were examined microscopically.

### **1.3. RESULTS**

F<sub>0</sub> and F<sub>1</sub> parental survival were unaffected by test article exposure in all exposure groups. No test article-related effects were observed on F<sub>0</sub> and F<sub>1</sub> reproductive performance (estrous cycles, mating and fertility indices, the mean number of days between pairing and coitus and the mean length of gestation), body weights, food consumption and food efficiency in the 500, 1000 and 2500 ppm group males or females. Spermatogenic endpoints (mean testicular and epididymal sperm numbers, sperm production rate, motility, progressive motility and the percentage of morphologically normal sperm) in the F<sub>0</sub> and F<sub>1</sub> test article-exposed groups were unaffected by test article exposure. There were no test article-related macroscopic findings or changes in mean

organ weights in the F<sub>0</sub> or F<sub>1</sub> males and females in the 500, 1000 and 2500 ppm groups. Microscopic evaluation of the F<sub>0</sub> and F<sub>1</sub> males and females revealed no test article-related histopathologic lesions, including for animals that failed to breed or produce a litter. No test article-related effects on primordial follicle counts and corpora lutea counts were observed in the F<sub>1</sub> 2500 ppm group females. F<sub>1</sub> and F<sub>2</sub> pup survival and the general physical condition of the pups were unaffected by exposure to the test article. No test article-related effects on mean pup body weights were observed in the 500, 1000 or 2500 ppm group F<sub>1</sub> or F<sub>2</sub> pups. No test article-related macroscopic findings were observed in F<sub>1</sub> or F<sub>2</sub> pups that were found dead or euthanized at the scheduled necropsy. There were no test article-related changes in mean organ weights for the F<sub>1</sub> or F<sub>2</sub> pups. The mean day of acquisition of balanopreputial separation or vaginal patency and mean body weights on the day of acquisition in the F<sub>1</sub> test article-exposed pups were not affected by the test article.

#### **1.4. CONCLUSIONS**

Based on the results of this study, an exposure level of 2500 ppm was considered to be the NOAEL (no-observed-adverse-effect level) for parental systemic, reproductive and neonatal toxicity of isobutanol when administered for two generations via whole-body inhalation exposure to rats.

## **2. INTRODUCTION**

### **2.1. GENERAL STUDY INFORMATION**

This report presents the data from “An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats.” Due to software spacing constraints, the study title is presented as “Inhalation Two-Gen. Repro. Toxicity Study of Isobutanol in Rats” on the report tables. For clarification of the terminology used to differentiate the generations in the report text, the offspring of the F<sub>0</sub> generation were defined as the F<sub>1</sub> litters; pups from the F<sub>1</sub> litters were selected to constitute the F<sub>1</sub> generation. The offspring of the F<sub>1</sub> generation were defined as the F<sub>2</sub> litters.

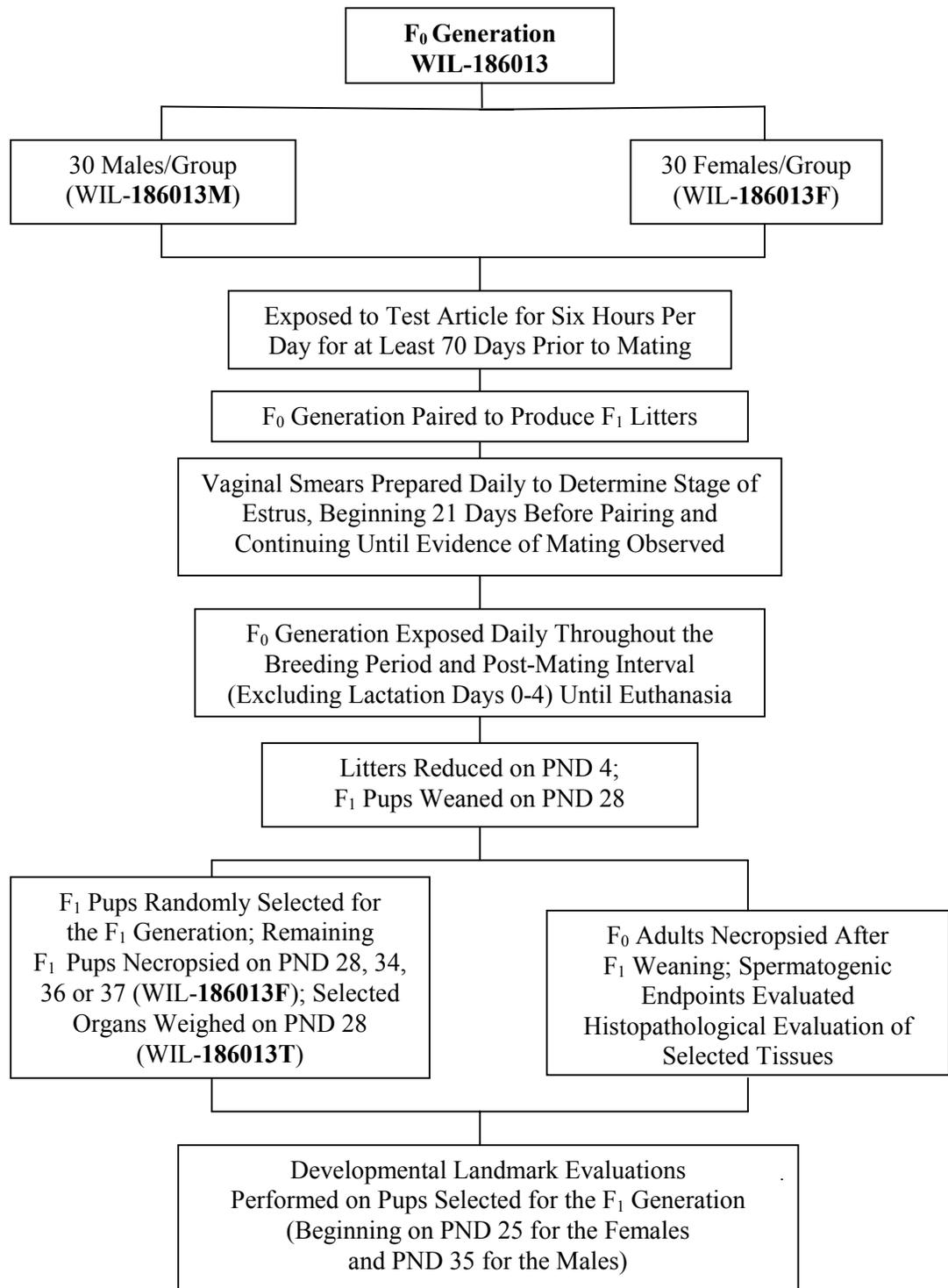
The following computer protocols were used for data collection during the study:

<b><u>Computer Protocol</u></b>	<b><u>Type of Data Collected</u></b>
WIL-186013M .....	F <sub>0</sub> parental (paternal) data
WIL-186013F .....	F <sub>0</sub> parental (maternal) and F <sub>1</sub> litter data
WIL-186013A .....	F <sub>1</sub> parental (paternal) data
WIL-186013D .....	F <sub>1</sub> parental (maternal) and F <sub>2</sub> litter data
WIL-186013T .....	F <sub>1</sub> selected weanling necropsy and organ weight data
WIL-186013F .....	F <sub>1</sub> weanling necropsy (PND 28, 34, 36 or 37) data
WIL-186013S .....	F <sub>2</sub> selected weanling necropsy and organ weight data

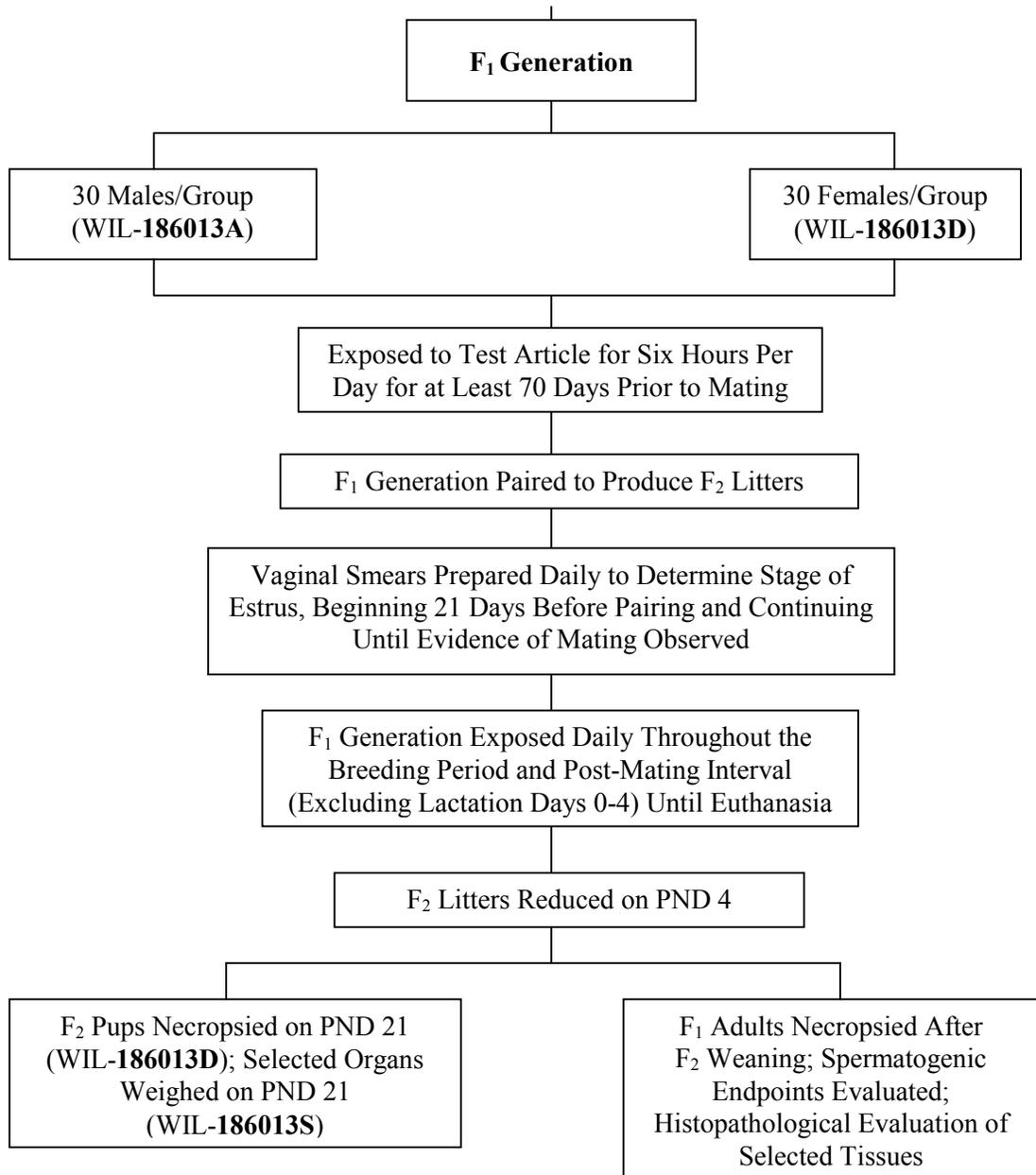
**2.2. KEY STUDY DATES**

<b><u>Date(s)</u></b>	<b><u>Event(s)</u></b>
August 14, 2001 .....	Experimental starting date (animal receipt)
September 4, 2001 .....	Initiation of F <sub>0</sub> exposures
November 13-27, 2001 .....	F <sub>0</sub> breeding range
December 30, 2001-February 9, 2002 .....	Evaluation of acquisition of developmental landmarks for selected F <sub>1</sub> pups
January 15, 2002 .....	Last necropsy of non-selected F <sub>1</sub> pups
January 15, 2002 .....	Last necropsy of F <sub>0</sub> parental generation
January 2, 2002 .....	Initiation of F <sub>1</sub> exposures (first PND 28)
March 28-April 11, 2002 .....	F <sub>1</sub> breeding range
May 22, 2002 .....	Last necropsy of F <sub>2</sub> pups
May 31, 2002 .....	Last necropsy of F <sub>1</sub> parental generation
February 14, 2003 .....	Experimental termination date (last microscopic examination)

### 3. STUDY DESIGN



**STUDY DESIGN (CONTINUED)**



#### **4. EXPERIMENTAL PROCEDURES – MATERIALS AND METHODS**

##### **4.1. TEST AND CONTROL ARTICLES**

###### **4.1.1. TEST ARTICLE IDENTIFICATION**

The test article, isobutanol, was received for the American Chemistry Council, from Union Carbide Corporation (a subsidiary of the Dow Chemical Company), Pasadena, Texas, on September 8, 2000, as follows:

<u>Identification</u>	<u>Quantity Received</u>	<u>Description</u>
Isobutanol Batch No. 15867 CAS No. 78-83-1 [WIL Log No. 4945A]	Drums 1-4 Total Gross Weight: 739.6 kg	Clear, colorless liquid

Characterization of the test article was performed by the sponsor. Characterization of the test article was supplied by the sponsor and is presented in Appendix A. Additional stability and purity analyses were performed by the Analytical Chemistry Department at WIL Research Laboratories, Inc. The results of these analyses are presented in Appendix B. The test article was stored at room temperature and was proven stable under this condition. A reserve sample of the test article was collected from each drum used and stored in the Archives at WIL Research Laboratories, Inc.

###### **4.1.2. TEST ATMOSPHERE MONITORING**

Exposure concentrations within each chamber were measured 9 to 10 times (approximately every 35 minutes) during each daily exposure period by a validated gas chromatographic method. At least one standard was analyzed each day prior to exposure to confirm gas chromatographic calibration. Chamber temperature, relative humidity, ventilation rate, and negative pressure within the chambers were monitored continuously and were recorded approximately every 35 minutes. Oxygen content within the chamber was measured during the pre-study method development phase. Nominal chamber concentrations were determined daily. Total air volume was calculated by multiplying

mean chamber ventilation rate (in liters per minute) by the exposure duration (in minutes). Test atmosphere homogeneity was demonstrated during pre-study method development. There were no detectable aerosols at any evaluation interval. The methodology and results of these analyses are presented in Appendix C.

#### **4.1.3. EXPOSURE METHODS**

Each group of animals was exposed in a 2.0-m<sup>3</sup> stainless steel and glass whole-body inhalation chamber. The chambers were operated under dynamic conditions at air flows of at least 12 to 15 air changes per hour. The overall mean analyzed concentrations for the F<sub>0</sub> generation were 500 ppm, 1008 ppm and 2522 ppm for the 500, 1000 and 2500 ppm groups, respectively. The overall mean analyzed concentrations for the F<sub>1</sub> generation were 494 ppm, 1012 ppm and 2521 ppm for the same respective groups.

The F<sub>0</sub> and F<sub>1</sub> males and females were exposed to the test atmosphere for daily six-hour exposures (seven days a week) for a minimum of 70 consecutive days prior to mating. Exposure of the F<sub>0</sub> and F<sub>1</sub> males continued throughout mating and through the day prior to euthanasia. The F<sub>0</sub> and F<sub>1</sub> females continued to be exposed throughout mating and gestation through gestation day 20. Exposure of the F<sub>0</sub> and F<sub>1</sub> females was re-initiated on lactation day 5 and continued through the day prior to euthanasia. During lactation, the dams were removed from their litters during each daily six-hour exposure period. The offspring of the F<sub>0</sub> generation (F<sub>1</sub> litters) were potentially exposed to the test article *in utero*, through nursing during PND 5-28 and via exposure following weaning (beginning on PND 28). The F<sub>1</sub> pups selected for breeding (30/sex/group) were exposed to the test article for six hours daily for at least 70 days prior to mating and throughout mating, gestation and lactation (with the exception of gestation day 21 through lactation day 4) until the day prior to necropsy. The offspring of the F<sub>1</sub> generation (F<sub>2</sub> litters) were potentially exposed to the test article *in utero* and through nursing during PND 5-28. The control group was exposed to clean, filtered air under conditions identical to those used for the groups exposed to the test article. Each cage battery was separated into three tiers. The position within the cage battery assigned to each animal was rotated daily over the

different days of exposure. The rats were removed from their home cages in the animal room and transported to the inhalation chambers for the six-hour exposure period. The animals were exposed to the test article at approximately the same time each day. Following exposure, the animals were returned to their home cages. Instrumentation was set to maintain the temperature inside the exposure chamber between 18°C and 26°C and relative humidity between 30% and 60%. Daily mean chamber temperatures ranged from 19-26°C, 20-25°C, 20-26°C and 20-23°C in the control, 500, 1000 and 2500 ppm groups, respectively, for both generations combined. Daily chamber humidity ranged from 30-49%, 33-56%, 35-55% and 26-44% in the same respective groups for both generations combined. Exposure methods and conditions are detailed in Appendix C.

Each chamber was dedicated to one exposure group. In order to minimize any potential variation occurring due to positioning within the chamber, the cages were sequentially rotated around the available rack positions within the chamber on a daily basis throughout the study, in accordance with the standard operating procedures at WIL Research Laboratories, Inc.

The F<sub>0</sub> and F<sub>1</sub> parental animals were assigned to study groups as follows:

<u>Group Number</u>	<u>Test Article</u>	<u>Target Exposure Level (ppm)</u>	<u>Number of Animals</u>	
			<u>Males</u>	<u>Females</u>
1	Filtered Air	0	30	30
2	Isobutanol	500	30	30
3	Isobutanol	1000	30	30
4	Isobutanol	2500	30	30

Exposure levels were selected based upon a reduction in response to external stimuli (during exposure) observed in a previous 90-day neurotoxicity study<sup>2</sup> and a non-statistically significant reduction in body weights and body weight changes during postnatal days 4-7 and 7-14 in pups from dams exposed to 2500 ppm isobutanol in a probe study<sup>1</sup>.

The selected route of administration was whole-body inhalation exposure because inhalation is a likely route of human exposure. The animal model selected, the CrI:CD<sup>®</sup>(SD)IGS BR rat, is recognized as appropriate for reproduction studies. WIL Research Laboratories, Inc. has reproductive historical control data for the CrI:CD<sup>®</sup>(SD)IGS BR rat.

#### **4.1.4. SAMPLING AND ANALYSES**

Prior to initiation of the previous range-finding study (WIL-186023<sup>2</sup>; Nemeč, 2002) and after the completion of this study, 5-g samples of the test article were sent to Nancy A. Broyles, Union Carbide Corporation, South Charleston, West Virginia, for purity analysis; the test article was found to be 99.9% pure. The results of this analysis are presented in Appendix A. Duplicate 10-mL retention samples (collected prior to the initiation of exposure) were collected from each test article container; these samples were analyzed for purity by the Analytical Chemistry Department at WIL Research Laboratories, Inc. The purity of the test article was found to be a minimum of 98.05%. Samples were collected and analyzed at the end of use of each test article container following the same procedure used for the initial purity samples (duplicate 10-mL samples were provided to the Analytical Chemistry Department). The resulting isobutanol concentrations were compared to time zero values as an assessment of stability. Unused duplicate samples were stored until no longer needed and discarded. The analysis of the residual samples demonstrated that the test article was stable throughout the course of the study. The methodology and results of these analyses are presented in Appendix B.

#### **4.2. F<sub>0</sub> ANIMAL RECEIPT AND ACCLIMATION**

One hundred thirty-six male and 137 female CrI:CD<sup>®</sup>(SD)IGS BR rats were received from Charles River Laboratories, Inc., Raleigh, North Carolina, on August 14, 2001. The animals were 30 days old upon receipt. Animals were individually housed except during mating. Each animal was examined by a qualified technician upon receipt and weighed the day following receipt. All animals were uniquely identified by a Monel<sup>®</sup> metal eartag

displaying the animal number. During the acclimation period (21 days), the animals were observed twice daily for mortality and morbidity.

#### **4.3. F<sub>0</sub>, F<sub>1</sub> AND F<sub>2</sub> ANIMAL HOUSING**

Following the initial acclimation period (F<sub>0</sub>) or selection (F<sub>1</sub>) and until pairing, all F<sub>0</sub> and F<sub>1</sub> parental test animals were individually housed in clean, wire-mesh cages suspended above cage-board. Cage board was changed three times per week. The animals were paired for mating in the home cage of the male. Following positive evidence of mating, the males were housed in suspended wire-mesh cages until the scheduled necropsy of the parental generations, and the females were transferred to plastic maternity cages with nesting material (Bed-O'Cobs<sup>®</sup>; The Andersons, Industrial Products Division, Maumee, Ohio). The dams were housed in these cages until weaning on lactation day 28 (F<sub>0</sub>) or lactation day 21 (F<sub>1</sub>). Following weaning of the litters in each generation (F<sub>1</sub> and F<sub>2</sub>), the maternal females were individually housed in suspended wire-mesh cages until the scheduled necropsy. Beginning on PND 28, the F<sub>1</sub> pups were individually housed in suspended wire-mesh cages until the start of the mating period. Maternal females for which there was no evidence of mating were placed in plastic maternity cages with nesting material upon completion of a 14-day mating period. Animals were housed in accordance with the "Guide for the Care and Use of Laboratory Animals."<sup>3</sup> The animal facilities at WIL Research Laboratories, Inc., are accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC International).

#### **4.4. DIET, DRINKING WATER AND MAINTENANCE OF F<sub>0</sub> AND F<sub>1</sub> ANIMALS**

The basal ration used in this study was PMI Nutrition International, Inc., Certified Rodent LabDiet<sup>®</sup> 5002. The diet used at WIL Research Laboratories, Inc., was a certified feed with appropriate analyses performed and provided by the manufacturer. Municipal water supplying the facility is regularly sampled for contaminants according to standard operating procedures. Contaminants were not present in animal feed or water at concentrations expected to interfere with the objectives of this study. The basal diet and

reverse-osmosis-treated (on-site) drinking water, delivered by an automatic watering system, were provided *ad libitum* throughout the acclimation period and during the study (except during exposure). Food jars were equipped with retainers to minimize spillage. Feeders were sanitized weekly.

#### **4.5. ENVIRONMENTAL CONDITIONS**

Animals were housed throughout the acclimation period and during the study in an environmentally controlled room. Controls were set to maintain a temperature of  $72 \pm 5^\circ\text{F}$  ( $22 \pm 3^\circ\text{C}$ ) and a relative humidity of approximately 30-70%. Prior to March 1, 2002, room temperature and relative humidity were monitored continuously using the Metasys<sup>®</sup> Network and manually recorded daily. The actual temperature ranged from  $70.0^\circ\text{F}$  to  $75.2^\circ\text{F}$  ( $21.1^\circ\text{C}$  to  $24.0^\circ\text{C}$ ) and humidity ranged from 30.0% to 57.9% during this period. Beginning on March 1, 2002 until study termination on May 31, 2002, room temperature and relative humidity were monitored using the Metasys DDC Electronic Environmental control system and were recorded approximately hourly. These data are summarized in Appendix D. Actual mean daily temperature ranged from  $71.6^\circ\text{F}$  to  $72.1^\circ\text{F}$  ( $22.0^\circ\text{C}$  to  $22.3^\circ\text{C}$ ) and mean daily relative humidity ranged from 34.8% to 49.2% during the study. Light timers were calibrated to provide a 12-hour light (6 a.m. to 6 p.m.)/12-hour dark photoperiod. Air handling units were set to provide approximately 10 fresh air changes per hour.

#### **4.6. ASSIGNMENT OF F<sub>0</sub> ANIMALS TO TREATMENT GROUPS**

At the conclusion of the acclimation period, all available F<sub>0</sub> animals were weighed and examined in detail for physical abnormalities. At the discretion of the study director, animals judged to be in good health and meeting acceptable body weight requirements (200 to 300 g for males and 150 to 250 g for females) were selected for use in the computerized randomization procedure. At that time, the individual body weights and corresponding animal identification numbers were entered into the WIL Toxicology Data Management System (WTDMS<sup>™</sup>). A printout containing the animal numbers, corresponding body weights and individual group assignment was generated based on

body weight stratification randomized in a block design. The animals were then arranged into groups according to the printout. The animals were approximately seven weeks old at the initiation of test article exposure. Male body weights ranged from 200 g to 305 g and female body weights ranged from 150 g to 199 g on the day of randomization (prior to study initiation). Body weights on study day 0 ranged from 236 g to 350 g for the males and from 159 g to 213 g for the females. Although the body weights for some males were above the range specified in the protocol, the group mean body weights were similar across all male groups. The individual randomization weights are not presented in this report but are contained in the study records.

#### **4.7. DATA RETENTION**

The sponsor has title to all documentation records, raw data, specimens or other work product generated during the performance of the study. All work product generated by WIL Research Laboratories, Inc., including raw paper data and specimens, are retained in the Archives at WIL Research Laboratories, Inc., as specified in the study protocol. Analytical (test article characterization) data generated by Union Carbide Corporation will be archived by the sponsor or the sponsor's designee.

Reserve samples of the test and control articles (if appropriate), pertinent electronic storage media and the original final report are retained in the Archives at WIL Research Laboratories, Inc., in compliance with regulatory requirements.

## **5. PARAMETERS EVALUATED**

### **5.1. F<sub>0</sub> AND F<sub>1</sub> OBSERVATIONS**

#### **5.1.1. CLINICAL OBSERVATIONS AND MORTALITY**

Detailed physical examinations were recorded weekly for all parental animals throughout the study period. All animals were observed twice daily for moribundity and mortality; in addition, the animals were observed for appearance, behavior and pharmacotoxic signs within one hour after completion of exposure. Females expected to deliver were also observed twice daily during the period of expected parturition and at parturition for dystocia (prolonged labor, delayed labor) or other difficulties.

During exposure, special attention was given to the state of arousal and response to novel stimuli by producing a loud-noise stimulus (only for individual animals visible in the chamber). The noise was produced by allowing a ¾-inch PVC pipe coupling (approximately 50 g) to strike the glass of the exposure chamber at the approximate level of the cage rack. The coupling was attached to a length of cotton rope that was held against the glass approximately 60 cm from the coupling. The coupling was raised until the rope was approximately perpendicular to the glass, and the coupling was released. The response was recorded as: 1) no reaction to stimulus, 2) slight reaction, ear flick or some evidence that stimulus was heard, or 3) more energetic response (jump, flinch, may include vocalization). Due to the cage rotation procedure, approximately 10-30% of the animals could be visible on a given day.

#### **5.1.2. BODY WEIGHTS**

Individual F<sub>0</sub> and F<sub>1</sub> male body weights were recorded on study days 0, 1, 4 and 7, weekly thereafter throughout the study, and prior to the scheduled necropsy. Individual F<sub>0</sub> and F<sub>1</sub> female body weights were recorded on study days 0, 1, 4 and 7 and weekly thereafter until evidence of copulation was observed. Mean weekly body weights and body weight changes are presented for each interval. Once evidence of mating was observed, female body weights were recorded on gestation days 0, 4, 7, 11, 14 and 20 and on lactation days 1, 4, 7, 14 and 21; for the F<sub>0</sub> females, body weights were also recorded on lactation day

28. Body weight changes are presented for each of these intervals. After weaning (lactation day 28), weekly body weights were recorded for these F<sub>0</sub> females until the scheduled necropsy.

### **5.1.3. FOOD CONSUMPTION**

Individual F<sub>0</sub> and F<sub>1</sub> male and female food consumption was measured on study days 0, 1, 4 and 7 and weekly thereafter until pairing. Food intake was not recorded during the mating period. Male food consumption was measured after mating on a weekly basis until the scheduled necropsy. Female food consumption was recorded on gestation days 0, 4, 7, 11, 14 and 20 and lactation days 1, 4, 7, 14 and 21; for the F<sub>0</sub> females, food consumption was also recorded on lactation day 28. For the F<sub>0</sub> generation, the last scheduled interval for weekly recording of food consumption was study day 126. Since final body weights and clinical observations were recorded on the scheduled necropsy days (after study day 126), food consumption was manually recorded at that time. These data are not presented in the report tables, but will be maintained in the raw data. Food consumption was calculated and reported as g/animal/day and g/kg/day for the corresponding body weight change intervals. Food efficiency (body weight gained as a percentage of food consumed) was also calculated and reported for these intervals. When food consumption could not be determined for an animal during a given interval (due to a weighing error, food spillage, obvious erroneous value, *etc.*), the appropriate interval was footnoted as "NA" (Not Applicable) on the individual tables.

## **5.2. F<sub>0</sub> AND F<sub>1</sub> REPRODUCTIVE PERFORMANCE**

### **5.2.1. ESTROUS CYCLES**

Vaginal smears were prepared daily to determine the stage of estrus for each female, beginning 21 days prior to pairing and continuing until evidence of mating was observed. For females with no evidence of mating, smearing was continued until termination of the mating period. The average cycle length was calculated for complete estrous cycles (*i.e.*, the total number of returns to metestrus [M] or diestrus [D] from estrus [E] or proestrus [P] beginning 21 days prior to initiation of the mating period and until the detection of

evidence of mating). Estrous cycle length was determined by counting the number of days from the first M or D in a cycle to the first M or D in a subsequent cycle. The cycle during which evidence of mating was observed for a given animal was not included in the mean individual estrous cycle length calculation. Vaginal smears were also performed on the day of necropsy to determine the stage of estrus.

### **5.2.2. BREEDING PROCEDURES**

The animals were paired on a 1:1 basis within each treatment group after a minimum of 70 days of exposure. A breeding record containing the male and female identification numbers and the start date of cohabitation was prepared. Each female was housed in the home cage of the male. Positive evidence of mating was confirmed by the presence of a copulatory plug or the presence of sperm in a vaginal smear. Each mating pair was examined daily. The day when evidence of mating was identified was termed day 0 of gestation. Then the animals were separated and the female was housed in an individual plastic cage with nesting material. When evidence of mating was not apparent after 14 days, the female was placed in a plastic maternity cage with nesting material.

Each generation was mated once to produce one litter per generation (the F<sub>1</sub> and F<sub>2</sub> litters). Prior to the F<sub>0</sub> pairing (day 70), male body weights ranged from 276 g to 598 g and female body weights ranged from 238 g to 341 g. The animals were approximately 17 weeks old. All animals were randomly selected for pairing.

Prior to the F<sub>1</sub> pairing (day 205), male body weights ranged from 344 g to 604 g and female body weights ranged from 195 g to 354 g. The animals were 15 to 16 weeks old. All animals were randomly selected for pairing avoiding sibling matings.

Pre-coital intervals were calculated according to the following method: rats paired over a 12-hour dark cycle were considered to have been paired for "one" day.

Mating and fertility indices were calculated as follows:

$$\text{Male (Female) Mating Index (\%)} = \frac{\text{No. of Males (Females) with Evidence of Mating (or Confirmed Pregnancy)}}{\text{Total No. of Males (Females) Used for Mating}} \times 100$$

$$\text{Female Fertility Index (\%)} = \frac{\text{No. of Females with Confirmed Pregnancy}}{\text{Total No. of Females Used for Mating}} \times 100$$

$$\text{Male Fertility Index (\%)} = \frac{\text{No. of Males Siring a Litter}}{\text{Total No. of Males Used for Mating}} \times 100$$

### **5.3. F<sub>0</sub> AND F<sub>1</sub> PARTURITION**

All females were allowed to deliver naturally and rear their young to weaning (PND 28 for the F<sub>1</sub> pups and PND 21 for the F<sub>2</sub> pups). During the period of expected parturition, the females were observed twice daily for initiation and completion of parturition and for signs of dystocia. On the day parturition was judged complete (PND 0), pups were sexed and examined for gross malformations, and the numbers of stillborn and live pups were recorded. Individual gestation lengths were calculated using the date delivery started.

### **5.4. F<sub>1</sub> AND F<sub>2</sub> LITTER DATA**

#### **5.4.1. LITTER VIABILITY AND DEATHS**

Each litter was examined twice daily for survival, and all deaths were recorded. All pups were individually identified by application of tattoo markings on the digits on PND 0. A daily record of litter size was maintained. Intact offspring dying from PND 0 to 4 were necropsied using a fresh dissection technique described by Stuckhardt and Poppe.<sup>4</sup> Pups with external abnormalities which would warrant further skeletal examination were eviscerated and stained as described by Dawson<sup>5</sup> for subsequent skeletal evaluation. Findings were recorded as either developmental variations (alterations in anatomic structure that are considered to have no significant biological effect on animals health or body conformity, representing slight deviations from normal) or malformations (those anomalies that alter general body conformity, disrupt or interfere with body function, or may be incompatible with life). A detailed gross necropsy was performed on any pup

dying after PND 4 and prior to weaning; tissues were preserved for possible future histopathological examination only as deemed necessary by the gross findings.

#### **5.4.2. LITTER REDUCTION**

To reduce variability among the litters, 8 pups per litter, 4 per sex when possible, were randomly selected on PND 4. All selections were performed by computerized randomization without regard to body weight. The remaining offspring were weighed, euthanized and discarded on PND 4. Standardization of litter size was not performed on litters with fewer than eight pups.

#### **5.4.3. CLINICAL OBSERVATIONS**

Litters were examined daily for survival and any adverse changes in appearance or behavior. Each F<sub>1</sub> and F<sub>2</sub> pup received a detailed physical examination on PND 1, 4, 7, 14 and 21. F<sub>1</sub> pups also received a detailed physical examination on PND 28, 32 and/or 35.

#### **5.4.4. BODY WEIGHTS**

Pups were individually weighed on PND 1, 4, 7, 14, 21, 28 (F<sub>1</sub> only), 32 (F<sub>1</sub> only) and 35 (F<sub>1</sub> only). Mean pup weights were presented by sex for each litter and by exposure group.

#### **5.4.5. SEX DETERMINATION**

Pups were individually sexed on PND 0, 4, 7, 14, 21 and 28 (F<sub>1</sub> only).

**5.4.6. CALCULATION OF LITTER PARAMETERS**

Litter parameters were defined as follows:

Live Litter Size	=	$\frac{\text{Total Viable Pups Day 0}}{\text{No. Litters With Viable Pups Day 0}}$	
Postnatal Survival Between Birth and PND 0 or PND 4 (Pre-Selection) (% Per Litter)	=	$\frac{\Sigma (\text{Viable Pups Per Litter on PND 0 or PND 4/No. of Pups Born Per Litter})}{\text{No. of Litters Per Group}}$	X 100
Postnatal Survival for All Other Intervals (% Per Litter)	=	$\frac{\Sigma (\text{Viable Pups Per Litter at End of Interval N/Viable Pups Per Litter at Start of Interval N})}{\text{No. of Litters Per Group}}$	X 100
Where N	=	PND 0-1, 1-4 (Pre-Selection), 4 (Post-Selection)-7, 7-14, 14-21, 21-28 or 4 (Post-Selection)-21 or 4 (Post-Selection)-28	

**5.4.7. WEANING AND SELECTION**

Each F<sub>0</sub> dam and litter remained housed together until weaning on lactation day 28. Thirty male and 30 female F<sub>1</sub> pups from each group (control, 500, 1000 and 2500 ppm) were randomly selected prior to weaning (lactation day 28) to comprise the F<sub>1</sub> generation. These pups (a minimum of one male and one female per litter, when available) were exposed to the test article for six hours per day beginning on day 28 *post partum*. Additional weanlings from each group were exposed to the test article from PND 28-34, 36 or 37. The additional pups were selected as potential replacement animals for selected F<sub>1</sub> weanlings dying between PND 28 and 37.

Pups were selected for the F<sub>1</sub> generation as follows. A computerized randomization procedure was used to select a minimum of one male and one female per litter, when available. An additional male and/or female were selected from a litter, if necessary, to obtain 30 males and 30 females for each group. Pups selected for the F<sub>1</sub> generation also retained the dam number, followed by a hyphen "-" and the digit tattoo marking (*i.e.* 99999-01).

## **5.5. F<sub>1</sub> DEVELOPMENTAL LANDMARKS**

The following investigations were used to assess the maturation of the selected F<sub>1</sub> pups. These procedures were concluded when the last pup to demonstrate balanopreputial separation was 62 days old. Cumulative litter values include pups which tested positive for the event but were found dead prior to the end of the testing period.

### **5.5.1. BALANOPREPUTIAL SEPARATION**

Each male pup was observed for balanopreputial separation beginning on PND 35 as described by Korenbrot *et al.*<sup>6</sup> The day on which balanopreputial separation was first observed was recorded for each pup. Examination of the pups continued daily until balanopreputial separation was present. Body weights were recorded on the day of acquisition of this landmark.

### **5.5.2. VAGINAL PATENCY**

Each female pup was observed for vaginal perforation beginning on PND 25 as described by Adams *et al.*<sup>7</sup> The day on which the vaginal lumen was first observed to open was recorded for each pup. Examination of the females was continued daily until vaginal patency was present. Body weights were recorded on the day of acquisition of this landmark.

## **5.6. SPERMATOGENIC ENDPOINT EVALUATIONS**

Immediately upon euthanasia, the reproductive tract of each F<sub>0</sub> and F<sub>1</sub> male was exposed via a ventral mid-line incision. The right epididymis was excised and weighed. An incision was made in the distal region of the right cauda epididymis. The right cauda epididymis was then placed in Dulbecco's phosphate-buffered saline (maintained at approximately 37°C) with 10 mg/mL bovine serum albumin (BSA). After a ten-minute incubation period, a sample of sperm was loaded into a 100- $\mu$ m cannula for determination of sperm motility. Because sperm motility can be affected by temperature shock, all cannulas and diluents were pre-warmed in an incubator, and motility determinations were performed under constant temperature (approximately 37°C) using

the Hamilton-Thorne HTM-IVOS Version 10 computer-assisted sperm analysis (CASA) system. Analysis of a minimum of 200 motile and nonmotile spermatozoa per animal (if possible) in all exposure groups was performed by the analyzer. The motility score (percent) for motile (showing motion only) and progressively motile (showing net forward motion) sperm was reported:

$$\begin{array}{l} \text{Percent Motile} \\ \text{(or Progressively Motile Sperm)} \end{array} = \frac{\text{Number of Motile} \\ \text{(or Progressively Motile) Sperm}}{\text{Total Number of Sperm Counted}} \times 100$$

Sperm morphology was evaluated by light microscopy via a modification of the wet-mount evaluation technique described by Linder *et al.*<sup>8</sup> Abnormal forms of sperm (double heads, double tails, microcephalic or megacephalic, *etc.*) from a differential count of 200 spermatozoa per animal, if possible, were recorded.

The left testis and epididymis from all F<sub>0</sub> and F<sub>1</sub> males from all exposure groups were stored frozen, homogenized and evaluated for determination of homogenization-resistant spermatid count and sperm production rate, using the method described by Blazak *et al.*<sup>9</sup> and the Hamilton-Thorne CASA system.

For determination of homogenization-resistant spermatid count and sperm production rate, the samples were thawed and homogenized, and a sample was retained for subsequent analysis. An aliquot of the sample was added to a solution containing a DNA-specific fluorescent dye (the dye stains DNA that is present in the head of the sperm). For analysis, each sample was mixed, and an aliquot was placed on a slide with a 20- $\mu$ m chamber depth. Illumination from a xenon lamp within the HTM-IVOS analyzer allowed for the visualization and quantitation of the sperm. A minimum of 200 cells, if possible, or 20 fields were counted for each sample.

## **5.7. SCHEDULED NECROPSY EXAMINATIONS**

### **5.7.1. F<sub>0</sub> AND F<sub>1</sub> GENERATIONS - ADULTS**

All surviving F<sub>0</sub> adults were euthanized following the selection of the F<sub>1</sub> generation and completion of a detailed clinical observation. All surviving F<sub>1</sub> adults were euthanized following weaning of the F<sub>2</sub> pups. A complete necropsy and selective histopathologic examination were conducted as described in Section 5.8.

### **5.7.2. F<sub>1</sub> AND F<sub>2</sub> PUPS**

Prior to weaning, 30 F<sub>1</sub> pups/sex/group were randomly selected for the F<sub>1</sub> parental generation and for evaluation of developmental landmarks. Additional F<sub>1</sub> pups were retained as potential replacement animals, and were euthanized by CO<sub>2</sub> inhalation and necropsied on PND 34, 36 or 37. In addition, one F<sub>1</sub> and one F<sub>2</sub> pup/sex/litter (when available) were selected from the F<sub>1</sub> and F<sub>2</sub> weanlings for complete necropsy on PND 28 and PND 21, respectively; brain, spleen and thymus gland weights were recorded. All remaining non-selected F<sub>1</sub> and F<sub>2</sub> weanlings were euthanized by CO<sub>2</sub> inhalation and necropsied on PND 28 and PND 21, respectively, with emphasis on developmental and reproductive system morphology. All gross lesions from F<sub>1</sub> and F<sub>2</sub> weanlings were preserved in 10% neutral-buffered formalin for possible future histopathologic examination; all other tissues were discarded.

## **5.8. PATHOLOGY**

### **5.8.1. MACROSCOPIC EXAMINATION**

A complete necropsy was conducted on all parental animals (F<sub>0</sub> and F<sub>1</sub>) euthanized *in extremis* or at termination. All animals were euthanized by isoflurane inhalation. The necropsy included examination of the external surface, all orifices, the cranial cavity, the external surfaces of the brain and spinal cord, and the thoracic, abdominal and pelvic cavities including viscera. At the time of necropsy, the following F<sub>0</sub> and F<sub>1</sub> parental tissues and organs were collected and were placed in 10% neutral-buffered formalin:

Adrenals (2)	Lymph node (mesenteric)
Aorta	Ovaries and oviducts (2)
Bone with marrow (sternebrae)	Pancreas
Brain (forebrain, midbrain, hindbrain)	Peripheral nerve (sciatic)
Coagulating gland	Pituitary
Eyes with optic nerve (2)	Prostate
Gastrointestinal tract	Salivary gland [submandibular (2)]
Esophagus	Seminal vesicles (2)
Stomach	Skeletal muscle (rectus femoris)
Duodenum	Skin with mammary gland
Jejunum	Spinal cord (cervical)
Ileum	Spleen
Cecum	Testes with epididymides <sup>a</sup> (1)
Colon	and vas deferens
Rectum	Thymus
Heart	Thyroids [with parathyroids,
Kidneys (2)	if present (2)]
Liver (sections of two lobes)	Trachea
Lungs (including bronchi,	Urinary bladder
fixed by inflation with fixative)	Uterus with cervix and vagina
	All gross lesions

<sup>a</sup> = The right testis and epididymis were fixed in Bouin's solution.

### **5.8.2. ORGAN WEIGHTS**

The following organs from all F<sub>0</sub> and F<sub>1</sub> parental animals euthanized at scheduled termination were weighed:

Adrenals	Prostate
Brain	Seminal vesicles with coagulating
Epididymides <sup>a</sup> (total and cauda)	glands (with accessory fluids)
Kidneys	Spleen
Liver	Testes <sup>a</sup>
Ovaries	Thymus gland
Pituitary	Uterus with oviducts and
	cervix

<sup>a</sup> = These paired organs were weighed separately.

Except as noted, paired organs were weighed together. Absolute weights and organ-to-final-body-weight ratios were reported.

### **5.8.3. HISTOLOGICAL PROCEDURES AND MICROSCOPIC EXAMINATION**

Microscopic evaluations were performed on the following tissues for 10 parental animals/sex/group from the control and high exposure groups and for all F<sub>0</sub> and F<sub>1</sub> adult animals that were euthanized *in extremis* or failed to breed, conceive or deliver offspring:

Adrenal glands: cortex and medulla	Prostate
Brain	Seminal vesicles with coagulating glands (with accessory fluids)
Cervix	Spleen
Epididymis <sup>a</sup> (right): caput, corpus and cauda	Testis <sup>a</sup> (right)
Kidneys	Thymus
Liver	Uterus (with oviducts)
Ovaries <sup>b</sup>	Vagina
Pituitary	All gross (internal) lesions <sup>c</sup>

<sup>a</sup> = PAS and hematoxylin staining were used for the right testis and epididymis. Transverse sections of 2 to 4 microns of the testes and longitudinal sections of the epididymides were made.

<sup>b</sup> = One section from each ovary from the selected F<sub>0</sub> females were examined. Five sections from each ovary from all F<sub>1</sub> females in the control and high exposure groups were examined. Quantitative histopathological evaluation from multiple sections (including enumeration of primordial follicles<sup>10,11</sup> and corpora lutea) was conducted on all F<sub>1</sub> females from the control and high exposure groups. Due to the size of the corpora lutea (much larger than primordial follicles), each corpus luteum was possibly sectioned and counted multiple times, resulting in a value that was larger than would be expected.

<sup>c</sup> = All gross lesions were examined from all F<sub>0</sub> and F<sub>1</sub> adults.

After fixation, protocol-specified tissues were trimmed according to standard operating procedures and the protocol. Trimmed tissues were processed into paraffin blocks, sectioned at 4-8 microns, mounted on glass microscope slides and stained with hematoxylin and eosin, except as noted above. The cervix from four, two, three and two F<sub>1</sub> females in the control, 500, 1000 and 2500 ppm groups, respectively, was cut

cross-wise instead of longitudinally. Due to processing, it was not possible to re-trim these tissues.

Microscopic examinations were conducted by Ann Radovsky, D.V.M., Ph.D., D.A.C.V.P., D.A.B.T., Senior Pathologist, WIL Research Laboratories, Inc.

## **5.9. STATISTICAL METHODS**

All statistical tests were performed using appropriate computing devices or programs. Analyses were conducted using two-tailed tests (except as noted otherwise) for minimum significance levels of 5%, comparing each test article-exposed group to the control group by sex. Each mean was presented with the standard deviation (S.D.) and the number of animals (N) used to calculate the mean. Due to the different rounding conventions inherent in the types of software used, the means and standard deviations on the summary and individual tables may differ by  $\pm 1$  in the last significant figure. Statistical analyses were not conducted if the number of animals was two or less. Data obtained from nonpregnant animals were excluded from statistical analyses following the mating period. Statistical analyses were not performed when weekly food or body weight data for one or more animals were not available because the animals remained in the lactation phase. The litter was used as the experimental unit.

Parental mating and fertility indices were analyzed using the Chi-square test with Yates' correction factor.<sup>12</sup> Mean parental (weekly, gestation and lactation) and offspring body weight gains, parental food consumption and food efficiency data, estrous cycle data, pre-coital intervals, gestation lengths, implantation sites, live litter sizes, unaccounted sites, numbers of pups born, balanopreputial separation (mean litter day of acquisition and body weight), vaginal patency (mean litter day of acquisition and body weight), absolute and relative organ weights, sperm production rate, epididymal and testicular sperm numbers, and ovarian primordial follicle counts were subjected to a parametric one-way analysis of variance (ANOVA)<sup>13</sup> to determine intergroup differences. If the ANOVA revealed statistically significant ( $p < 0.05$ ) intergroup variance, Dunnett's test<sup>14</sup> was used to compare the test article-exposed groups to the control group. Mean offspring weights

were subjected to a parametric one-way analysis of covariance (ANCOVA)<sup>15</sup>, with litter size as the covariant, to determine intergroup differences. If the ANCOVA revealed statistically significant ( $p < 0.05$ ) intergroup variance, Student's T-test<sup>15</sup> was used to compare the test article-exposed groups to the control group. Mean litter proportions (percent per litter) of postnatal pup survival, pup sexes at birth (percentage of males per litter), percentage of motile sperm, and percentage of sperm with normal morphology were subjected to the Kruskal-Wallis nonparametric ANOVA test<sup>16</sup> to determine intergroup differences. If the ANOVA revealed statistically significant ( $p < 0.05$ ) intergroup variance, the Mann-Whitney U-test<sup>16</sup> was used to compare the test article-exposed groups to the control group. Histopathological findings in the test article-exposed groups were compared to the control group using a two-tailed Fisher's Exact test.<sup>17</sup>

## **6. RESULTS AND DISCUSSION**

### **6.1. F<sub>0</sub> GENERATION**

#### **6.1.1. CLINICAL OBSERVATIONS AND SURVIVAL**

Summary Data: Tables 1, 2, 3, 4, 5, 6, 7, 8

Individual Data: Tables 125, 126, 127, 128, 129, 130

After 91 days of exposure to the test article, female no. 74805 in the 500 ppm group had pale eyes and ears and appeared to be having difficulty during parturition (gestation day 23) and was euthanized *in extremis* on lactation day 0. This female delivered 12 pups and had four pups retained *in utero*. On the day of euthanasia, this female had pale ears and eyes and red discharge from the vagina. Microscopically, the cause of death for this female was determined to be severe acute renal tubular necrosis and moderate acute hepatic necrosis. Therefore, this death was not attributed to the test article; no evidence of dystocia was observed in females in the 1000 or 2500 ppm groups. All other animals survived to the scheduled necropsy.

There were no test article-related clinical observations at the weekly detailed physical examinations or one hour following exposure. The response to novel stimulus was similar in all groups, including the control group.

#### **6.1.2. REPRODUCTIVE PERFORMANCE**

Summary Data: Tables 9, 10

Individual Data: Tables 131, 132

Historical Control Data: Appendix E

No test article-related effects on reproductive performance were observed. Male and female mating indices were 86.7%, 100.0%, 96.7% and 100.0% in the control, 500, 1000, and 2500 ppm groups, respectively. Male and female fertility indices were 73.3%, 96.7%, 93.3% and 93.3% in the same respective groups. The only statistically significant ( $p < 0.05$ ) differences from the control group were increases in the male and female fertility indices in the 500 ppm group. It should be noted that the fertility index for the

control group (73.3%) was reduced compared to the mean value in the WIL historical control data (90.4%). However, the values in the isobutanol-exposed groups exceeded the mean value in the WIL historical control data. Males that did not sire a litter numbered 8, 1, 2 and 2 in the control, 500, 1000 and 2500 ppm groups, respectively. Females that had evidence of mating but did not deliver numbered 4, 1, 2 and 3 in the same respective groups.

The mean numbers of days between pairing and coitus in the test article-exposed groups were similar to the control group value. The mean lengths of estrous cycles in these groups were similar to that in the control group. None of the differences were statistically significant.

### **6.1.3. BODY WEIGHTS**

#### **6.1.3.1. WEEKLY**

Summary Data: Tables 11, 12, 13, 14, 15, 16

Individual Data: Tables 133, 134, 135, 136

Mean F<sub>0</sub> body weights, body weight gains and cumulative body weight gains in the 500, 1000 and 2500 ppm groups were unaffected by exposure to the test article during the pre-mating period and one week following weaning (females) and throughout the study (males). The only statistically significant ( $p < 0.05$ ) difference from the control group was a decreased mean body weight gain in the 1000 ppm group males during study days 84-91. A similar reduction was not observed in the 2500 ppm group; therefore, this transient decrease was not attributed to the test article.

#### **6.1.3.2. GESTATION**

Summary Data: Tables 17, 18

Individual Data: Tables 137, 138

No test article-related effects on maternal body weights or body weight gains were observed in the test article-exposed groups during the F<sub>0</sub> gestation period. Differences from the control group were slight and were not statistically significant.

### **6.1.3.3. LACTATION**

Summary Data: Tables 19, 20

Individual Data: Tables 139, 140

No test article-related effects on F<sub>0</sub> lactation body weights or body weight gains were observed in the test article-exposed groups. The only statistically significant ( $p < 0.01$ ) differences from the control group were a mean body weight loss of 33 grams in the 500 ppm group compared to a loss of 53 grams in the control group during lactation days 21-28, resulting in a statistically significant ( $p < 0.05$  or  $p < 0.01$ ) increase in mean body weight on lactation day 28 and in mean body weight gain during the entire lactation period (days 1-28). Since the control group lost more weight than the 500 ppm group, this difference was not considered to be an adverse change.

### **6.1.4. FOOD CONSUMPTION AND EFFICIENCY**

#### **6.1.4.1. WEEKLY**

Summary Data: Tables 21, 22, 23, 24, 25, 26

Individual Data: Tables 141, 142, 143, 144, 145, 146

Food consumption, evaluated as g/animal/day and g/kg/day, and food efficiency in the 500, 1000 and 2500 ppm groups were unaffected by exposure to the test article during the pre-mating period and one week following weaning (females) and throughout the study (males). Occasional statistically significant ( $p < 0.05$  or  $p < 0.01$ ) reductions in food consumption (primarily g/kg/day) were observed in the 2500 ppm group males compared to the control group values during study days 14-21 through 112-119. Food consumption (g/animal/day) in these males was generally not affected during these intervals. Mean body weights and food efficiency in the 2500 ppm group males and females were similar to or greater than the control values. Therefore, these sporadic reductions were not attributed to exposure to the test article. The only other statistically significant differences ( $p < 0.05$  or  $p < 0.01$ ) from the control group were a decrease in food consumption (g/animal/day) in the 2500 ppm group males during study days 28-35, an

increase in food consumption (g/kg/day) during day 0-1 in the 1000 ppm group males and a decrease in food efficiency in the 1000 ppm group males during study days 1-4. Similar differences were not observed in the 2500 ppm group males during this interval; therefore, no relationship to exposure was evident.

#### **6.1.4.2. GESTATION**

Summary Data: Tables 27, 28, 29

Individual Data: Tables 147, 148, 149

F<sub>0</sub> maternal food consumption and food efficiency during gestation were unaffected by test article exposure in the 500, 1000 and 2500 ppm groups. The only statistically significant difference from the control group was a slight reduction in food consumption (g/kg/day) in the 2500 ppm group when the entire gestation period (days 0-20) was evaluated. Food efficiency and gestation body weight gain in this group was unaffected during this interval. Therefore, the reduction was not attributed to test article exposure.

#### **6.1.4.3. LACTATION**

Summary Data: Tables 30, 31, 32

Individual Data: Tables 150, 151, 152

F<sub>0</sub> maternal food consumption and food efficiency in the test article-exposed groups were similar to the control group values throughout lactation. The only statistically significant ( $p < 0.01$ ) differences were a smaller decrement in food efficiency in the 500 ppm group during lactation days 21-28 than the control group and an increase in food efficiency in this group during the entire lactation period (days 1-28). Because similar effects were not observed at higher exposure levels, these differences were not considered test article-related.

### **6.1.5. GESTATION LENGTH AND PARTURITION**

Summary Data: Table 33

Individual Data: Table 153

Historical Control Data: Appendix E

Mean F<sub>0</sub> gestation lengths in the test article-exposed groups were unaffected by exposure to the test article. Differences from the control group value were slight and were not statistically significant. The mean gestation lengths in the 500, 1000 and 2500 ppm groups were 21.9, 21.9 and 21.8 days, respectively, compared to a mean gestation length of 22.0 days in the control group.

Female no. 74805 in the 500 ppm group was euthanized *in extremis* due to apparent difficulty during parturition. The cause of moribundity for this animal was determined to be renal and liver necrosis with multiple organ failure. Because dystocia was not observed in females in the 1000 and 2500 ppm groups, the difficulty during delivery was not attributed to the test article.

### **6.1.6. F<sub>0</sub> SPERMATOGENIC ENDPOINT EVALUATIONS**

Summary Data: Tables 34, 35, 36, 37, 38

Individual Data: Tables 154, 155, 156, 157, 158

Historical Control Data: Appendix E

No test article-related effects were observed on F<sub>0</sub> spermatogenesis endpoints (mean testicular and epididymal sperm numbers, sperm production rate, motility, progressive motility and morphology) in males at any exposure level. Differences from the control group were slight and were not statistically significant. A slight reduction in the percentage of morphologically normal sperm in the 2500 ppm group (95.9%) compared to the control group value (97.9%) was attributed to a single male (no. 74628) with an abnormally low percentage of morphologically normal sperm (0.5%). The values for the remaining males in this group were comparable to those in the control group. Therefore,

the reduction in morphologically normal sperm in the single male in the 2500 ppm group was attributed to biological variation.

### **6.1.7. F<sub>0</sub> NECROPSY EXAMINATIONS**

#### **6.1.7.1. MACROSCOPIC EXAMINATION**

Summary Data: Tables 39, 40, 41, 42

Individual Data: Tables 159, 160, 161, 162

Female no. 74805 in the 500 ppm group was euthanized on lactation day 0 due to difficulties during parturition. This female delivered 12 pups and had four fetuses with no apparent malformations retained *in utero*. This animal had dark red contents in the ileum and jejunum and a pale pituitary gland. Similar findings were not observed in females at the scheduled necropsy in the higher exposure groups. Therefore, these findings were not attributed to the test article.

At the scheduled necropsy, no exposure-related trends were observed in the macroscopic findings noted in the test article-exposed groups. Findings were observed similarly in control group animals, were noted infrequently and/or did not occur in an exposure-related manner. The mean number of implantation sites and the mean number of unaccounted sites in the F<sub>0</sub> test article-exposed females were similar to the control group values; no statistically significant differences were observed.

#### **6.1.7.2. ORGAN WEIGHTS**

Summary Data: Tables 43, 44, 45, 46

Individual Data: Tables 163, 164, 165, 166

No test article-related effects on organ weights were observed in the 500, 1000 and 2500 ppm group males or females. The only statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences from the control group were increases in mean absolute prostate weights in the 1000 ppm group males and mean relative prostate weights in the 500 and 1000 ppm group males and a decrease in mean absolute pituitary weight in the 500 ppm group

females. Because similar effects were not observed in the 2500 ppm group males and females, these changes were not attributed to the test article.

### **6.1.7.3. MICROSCOPIC EXAMINATION**

Summary Data: Tables 47, 48, 49

Individual Data: Tables 159, 160, 161

Female no. 74805 was euthanized *in extremis* during parturition. Microscopic findings for this female included severe acute renal tubular necrosis, moderate acute hepatic necrosis, lymphoid depletion of the spleen and lymphoid necrosis of the thymus. The cause of the moribund condition of this female was renal and liver necrosis with multiple organ failure.

At the scheduled necropsy, no test article-related microscopic findings were observed including for animals that failed to breed or produce a litter. The only statistically significant ( $p < 0.05$ ) differences from the control group values were an increase in the incidence of hydronephrosis in the 500 ppm group females and a decrease in the incidence of dilatation of the uterine lumen in the 2500 ppm group females. A slightly increased incidence (not statistically significant) of basophilic tubules was observed in the kidneys of the 2500 ppm group males; however, the severity of this lesion was minimal, and a similar increase was not observed in the 2500 ppm group females. Therefore, this common, spontaneous alteration was not considered to be test article-related. Other microscopic findings were typical of spontaneous conditions in young rats.

### **6.1.8. F<sub>1</sub> LITTER DATA**

#### **6.1.8.1. PND 0 LITTER DATA AND POSTNATAL SURVIVAL**

Summary Data: Tables 50, 51

Individual Data: Tables 167, 168

Historical Control Data: Appendix E

The mean numbers of F<sub>1</sub> pups born, live litter sizes and percentages of males per litter were similar among all groups; no statistically significant differences were noted.

Postnatal survival on PND 0 (relative to the number born) and during PND 0-1, 1-4, 4-7, 7-14, 14-21, 21-28, birth to PND 4 and PND 4-28 were unaffected by test article exposure. Statistically significant ( $p < 0.05$  or  $p < 0.01$ ) decreases in postnatal survival were observed in the test article-exposed groups relative to the control group values. These reductions occurred in the 500 ppm group during PND 0-1, 4-7 and 4-28 and in the 1000 ppm group during PND 0-1. Reductions (not statistically significant) were observed in the 2500 ppm group during PND 0-1, birth to PND 4 and PND 4-28. Because no exposure concentration-dependent response was observed, these decreases in postnatal survival were not considered test article-related.

#### **6.1.8.2. GENERAL PHYSICAL CONDITION AND MORTALITIES**

Summary Data: Tables 52, 53

Individual Data: Table 169

The numbers of pups (litters) available for clinical signs were 299 (22), 390 (29), 390 (27) and 388 (27) in the control, 500, 1000 and 2500 ppm groups, respectively. The numbers of pups found dead during the lactation period were 13, 22, 21 and 30 in the control, 500, 1000 and 2500 ppm groups, respectively. In the same respective exposure groups, 3, 19, 9 and 11 pups were missing and presumed cannibalized. The incidence of dead/missing pups was slightly higher in the 2500 ppm group, although this was not considered exposure-related. In general, larger-sized litters tend to have increased postnatal deaths due to competition with littermates for access to maternal resources (nursing, thermoregulation, grooming, *etc.*). The dams in the 2500 ppm group had approximately one additional pup/litter compared to the control group. The pups from female no. 74805 (500 ppm group) were euthanized on PND 0 due to the euthanasia of the dam. The general physical condition of the F<sub>1</sub> pups during lactation was generally similar in all groups, including the control group.

### **6.1.8.3. OFFSPRING BODY WEIGHTS**

Summary Data: Tables 54, 55, 56, 57

Individual Data: Tables 170, 171

Historical Control Data: Appendix E

#### **6.1.8.3.1. PRE-WEANING**

No exposure-related effects on mean pup body weights or body weight gains were observed during the pre-weaning period (PND 1-28). Numerous statistically significant ( $p < 0.05$  or  $p < 0.01$ ) decreases in mean pup body weights and/or pup body weight gains were observed in the 500 and 1000 ppm group F<sub>1</sub> males and females, primarily during PND 4-28. Mean pup body weights in the test article-exposed groups were similar to the control group value on PND 1. Mean pup body weights in the 2500 ppm group were also reduced (not statistically significant) between PND 14 and 28 (6.4%-8.1% for the males and 4.9%-7.7% for the females). Mean pup body weight gains in the 2500 ppm group were similar to those in the control group during PND 1-4, 4-7 and 7-14. Mean pup body weight gains in this group were slightly reduced during PND 14-21 and 21-28 (statistically significant at  $p < 0.05$  during PND 14-21, males only). These reductions in mean body weights and mean body weight gains followed neither a concentration-dependent nor a time-course response. The earliest, most severe reductions were observed in the 500 ppm group and began on PND 4, which was prior to the re-initiation of maternal exposure and continued throughout the pre-weaning periods. The onset of reductions in mean body weight in the 1000 ppm group occurred, at a lesser extent, on PND 14; statistical significance in this group was not observed after PND 21. There were no reductions in mean body weight observed during the pre-weaning period in the 2500 ppm group; only slight reductions (statistically significant only in males at one time point) in mean body weight gains were observed during the last half of the pre-weaning period. Because of the lack of an exposure-related effect, none of the decreases were attributed to the test article.

#### **6.1.8.3.2. POST-WEANING**

No exposure-related effects on mean pup body weights or body weight gains were observed during the post-weaning period (PND 28-32 and 32-35). Statistically significant ( $p < 0.05$  or  $p < 0.01$ ) decreases in mean pup body weights and/or pup body weight gains were observed in the 500 and 1000 ppm group F<sub>1</sub> males and females during this period. The reductions did not occur in a concentration-dependent manner; therefore, the decreases were not attributed to the test article. Mean pup body weights and body weight gains in the 2500 ppm group were similar to those in the control group. No statistically significant differences were noted.

#### **6.1.8.4. NECROPSIES OF PUPS FOUND DEAD**

Summary Data: Table 58

Individual Data: Table 172

There were no test article-related internal findings noted at the necropsies of pups that were found dead. Pup no. 74782-14 in the 500 ppm group had dark red discoloration of the brain. Pup no. 74782-08 in the same group had lungs that were not fully collapsed (PND 29). In the 2500 ppm group, pup no. 74803-14 had a mechanical injury (fractured right parietal bone with associated hemorrhage). Aside from the presence or absence of milk in the stomach, no other internal findings were noted in pups that died.

#### **6.1.8.5. NECROPSIES OF WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS (PND 28, 34, 36 AND 37)**

Summary Data: Table 59

Individual Data: Table 173

No test article-related internal findings were observed in the weanlings necropsied on PND 28, 34, 36 or 37, or in the pups euthanized due to the death of the dam. Pup no. 74785-10 in the 500 ppm group had a raised, white area on the median lobe of the liver. Pup nos. 74739-03 and 74849-12 in the 1000 ppm group had a dilated renal pelvis (unilateral). In the 2500 ppm group, pup no. 74813-14 had a cystic oviduct. Pup

no. 74862-12 in the same group had a mechanical injury (the frontal and parietal bones were fractured). No other internal findings were observed.

#### **6.1.8.6. NECROPSIES OF WEANLINGS SELECTED FOR ORGAN WEIGHTS - PND 28**

##### **6.1.8.6.1. MACROSCOPIC EXAMINATION**

Summary Data: Table 60

Individual Data: Table 174

No internal findings were observed at the necropsy of pups selected for organ weights.

##### **6.1.8.6.2. ORGAN WEIGHTS**

Summary Data: Tables 61, 62

Individual Data: Tables 175, 176

No test article-related changes in mean organ weights (absolute or relative to final body weight) were observed in F<sub>1</sub> pups in the 500, 1000 or 2500 ppm groups. The only statistically significant (p<0.05) differences from the control group were decreases in the mean absolute thymus weight in the 500 ppm group males and the mean absolute brain weight in the 500 ppm group females. Mean body weights on PND 28 was reduced in the 500 ppm group males and females. In addition, similar decreases were not observed in the 1000 or 2500 ppm groups nor in the relative organ weights in the 500 ppm group animals; therefore, these reductions were not attributed to the test article.

#### **6.1.9. F<sub>1</sub> DEVELOPMENTAL LANDMARKS**

##### **6.1.9.1. BALANOPREPUTIAL SEPARATION**

Summary Data: Tables 63, 64

Individual Data: Tables 177, 178

Historical Control Data: Appendix E

There were no test article-related differences in the mean day of acquisition of balanopreputial separation or mean body weight on the day of acquisition. The only

statistically significant difference ( $p < 0.05$ ) from the control group was a reduced mean body weight on the day of balanopreputial separation in the 500 ppm group. However, because similar decreases were not observed in the 1000 and 2500 ppm groups, the decrease was not attributed to the test article.

#### **6.1.9.2. VAGINAL PATENCY**

Summary Data: Tables 65, 66

Individual Data: Tables 179, 180

Historical Control Data: Appendix E

There were no test article-related differences in the mean day of acquisition of vaginal patency or mean body weight on the day of acquisition. The only statistically significant difference ( $p < 0.05$ ) from the control group was a delay in the day of acquisition of vaginal patency in the 500 ppm group. Similar effects were not observed in the 1000 and 2500 ppm groups; therefore, the delay was not attributed to the test article.

### **6.2. F<sub>1</sub> GENERATION**

#### **6.2.1. CLINICAL OBSERVATIONS AND SURVIVAL**

Summary Data: Tables 67, 68, 69, 70, 71, 72, 73, 74

Individual Data: Tables 181, 182, 183, 184, 185, 186, 187

All F<sub>1</sub> adults survived to the scheduled necropsy. There were no test article-related clinical observations at the detailed physical examinations or one hour following exposure. The response to novel stimulus in the test article-exposed groups was similar to that in the control group.

## **6.2.2. REPRODUCTIVE PERFORMANCE**

Summary Data: Tables 75, 76

Individual Data: Tables 188, 189

Historical Control Data: Appendix E

Reproductive performance was unaffected by test article exposure at concentrations of 500, 1000 and 2500 ppm.

F<sub>1</sub> male and female fertility indices were 73.3%, 83.3%, 76.7% and 80.0% in the control, 500, 1000 and 2500 ppm groups, respectively. Male and female mating indices in the same respective groups were 96.7%, 93.3%, 90.0% and 83.3%. None of the differences from the control group were statistically significant. Males that did not sire a litter numbered 8, 5, 7 and 6 in the control, 500, 1000 and 2500 ppm groups, respectively. Females that had evidence of mating but did not deliver numbered 7, 3, 4 and 1 in the same respective groups.

The mean numbers of days between pairing and coitus in the test article-exposed groups were similar to the control group value. The mean lengths of estrous cycles in these groups were similar to that in the control group. None of the differences were statistically significant.

## **6.2.3. BODY WEIGHTS**

### **6.2.3.1. WEEKLY**

Summary Data: Tables 77, 78, 79, 80, 81, 82

Individual Data: Tables 190, 191, 192, 193

No test article-related trends in F<sub>1</sub> mean body weights, body weight gains or cumulative body weight gains were observed in the test article-exposed groups. Numerous statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences (primarily decreases) in mean body weights and body weight gains were observed in males and females in the test article-exposed groups. The majority of the differences were observed in the 500 and 1000 ppm group males. Mean body weights in these males were 10.3% and 9.7%,

respectively, lower than the control group value at the end of the pre-mating period (study day 204). These decrements appeared to be a continuation of the decreases in mean body weight gain observed in the 500 and 1000 ppm groups during the pre-weaning and early post-weaning periods (refer to Section 6.1.8.3). The effects were most pronounced at the low-exposure level, less pronounced at the mid-exposure level and not expressed at the high-exposure level. Because the changes were not concentration-dependent, they were not attributed to exposure to the test article.

#### **6.2.3.2. GESTATION**

Summary Data: Tables 83, 84

Individual Data: Tables 194, 195

No test article-related differences in mean maternal body weights or body weight gains were observed in the F<sub>1</sub> females during gestation. Differences from the control group values were slight, and none were statistically significant.

#### **6.2.3.3. LACTATION**

Summary Data: Tables 85, 86

Individual Data: Tables 196, 197

No test article-related differences in mean maternal body weights or body weight gains were observed in the F<sub>1</sub> females during lactation. Differences from the control group values were slight, and none were statistically significant.

#### **6.2.4. FOOD CONSUMPTION**

##### **6.2.4.1. WEEKLY**

Summary Data: Tables 87, 88, 89, 90, 91, 92

Individual Data: Tables 198, 199, 200, 201, 202, 203

No test article-related trends in F<sub>1</sub> food consumption (g/animal/day and g/kg/day) or food efficiency were observed in the test article-exposed groups. Occasional statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences from the control group were noted, but no test

article-related trends were apparent. Statistically significant ( $p < 0.05$  or  $p < 0.01$ ) decreases in food consumption evaluated as g/animal/day were observed in the 500 and 1000 ppm group males. Because the changes observed in the test article-exposed groups were not concentration-dependent, there were no exposure-related changes in food efficiency and food consumption in the males, evaluated as g/kg/day, was generally similar to that in the control group, the decreases were not attributed to test article exposure. These reductions in food consumption (g/animal/day) were attributed to the smaller size of the males in these groups. In the 2500 ppm group males and females, food consumption (g/animal/day and/or g/kg/day) was occasionally reduced (statistically significant at  $p < 0.05$  or  $p < 0.01$ ) compared to the control group values. Specifically, food consumption (g/kg/day) in the 2500 ppm group females was generally reduced throughout the pre-mating period and also during the post-mating period (study days 260-266). The differences from the control group were often statistically significant ( $p < 0.05$  or  $p < 0.01$ ). However, food efficiency in the 2500 ppm group males and females was similar to that in the control group and no trends were apparent that would be consistent with a test article-related effect.

#### **6.2.4.2. GESTATION**

Summary Data: Tables 93, 94, 95

Individual Data: Tables 204, 205, 206

F<sub>1</sub> maternal food consumption and food efficiency during gestation in the test article exposure groups was unaffected by test article exposure. The only statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences from the control group were reductions in food consumption (evaluated as g/kg/day) in the 2500 ppm group during gestation days 0-4 and 11-14. Because similar decreases were not observed in the g/animal/day values, they were not attributed to exposure.

### **6.2.4.3. LACTATION**

Summary Data: Tables 96, 97, 98

Individual Data: Tables 207, 208, 209

F<sub>1</sub> maternal food consumption and food efficiency in the test article exposure groups were unaffected by test article exposure during lactation. The only statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences from the control group were reductions in food consumption (evaluated as g/animal/day and/or g/kg/day) in the 500, 1000 and 2500 ppm groups during lactation days 14-21. Because of the absence of a concentration-dependent response, these decreases were not attributed to test article exposure.

### **6.2.5. GESTATION LENGTH AND PARTURITION**

Summary Data: Table 99

Individual Data: Table 210

Historical Control Data: Appendix E

The mean lengths of gestation were comparable between the F<sub>1</sub> test article-exposed groups and the control group. The differences were not statistically significant. The mean gestation lengths in the 500, 1000 and 2500 ppm groups were 22.0, 21.9 and 21.8 days, respectively, compared to a mean gestation length of 22.0 days in the control group. No signs of dystocia were noted.

### **6.2.6. F<sub>1</sub> SPERMATOGENIC ENDPOINT EVALUATIONS**

Summary Data: Tables 100, 101, 102, 103, 104

Individual Data: Tables 211, 212, 213, 214, 215

Historical Control Data: Appendix E

No test article-related effects on F<sub>1</sub> spermatogenic endpoints (mean testicular and epididymal sperm numbers, sperm production rate, sperm motility, progressive motility and the percentage of morphologically normal sperm) were observed at any exposure level. Differences from the control group were slight and were not statistically significant.

## **6.2.7. F<sub>1</sub> NECROPSY EXAMINATIONS**

### **6.2.7.1. MACROSCOPIC EXAMINATION**

Summary Data: Tables 105, 106, 107

Individual Data: Tables 216, 217, 218

No test article-related internal findings were observed at the scheduled necropsy of F<sub>1</sub> adult males and females. Findings observed were noted similarly in the control group, did not occur in an exposure concentration-related manner and/or were common to laboratory rats. The mean numbers of implantation sites and the numbers of unaccounted sites in the test article-exposed groups were similar to the control group values.

### **6.2.7.2. ORGAN WEIGHTS**

Summary Data: Tables 108, 109, 110, 111

Individual Data: Tables 220, 221, 222, 223

No test article-related changes in mean organ weights (absolute or relative to final body weight) were observed. The only statistically significant ( $p < 0.05$  or  $p < 0.1$ ) differences from the control group values were reductions in mean absolute liver weight in the 500 ppm group males and mean absolute pituitary weight in the 500 and 1000 ppm group females, and increases in the mean relative (to final body weight) thymus and brain weights in the 500 ppm group males. Mean final body weights in these groups were reduced compared to the control group values, resulting in reduced absolute weights for the liver and pituitary. Because the brain is unaffected by reductions in body weight, increased mean relative brain weights would be expected. Similar changes were not observed in the 2500 ppm group males and females. Therefore, these changes were not attributed to the test article.

### **6.2.7.3. MICROSCOPIC EXAMINATION**

Summary Data: Tables 112, 113, 114

Individual Data: Tables 216, 217, 219

There were no test article-related histopathologic alterations observed in F<sub>1</sub> animals at exposure levels of 500, 1000 and 2500 ppm, including for animals that failed to breed or produce a litter. Findings in the test article-exposed groups occurred similarly in the control group and were considered spontaneous or incidental in nature. The only statistically significant ( $p < 0.05$ ) difference from the control group was a decrease in the number of males in the 2500 ppm group with subacute inflammation in the kidneys. A decrease in the number of animals with microscopic lesions is not considered adverse. Therefore, these differences were not considered test article-related. No test article-related effects on primordial follicle counts or corpora lutea counts were observed in the 2500 ppm group females.

### **6.2.8. F<sub>2</sub> LITTER DATA**

#### **6.2.8.1. PND 0 LITTER DATA AND POSTNATAL SURVIVAL**

Summary Data: Tables 115, 116

Individual Data: Tables 224, 225

Historical Control Data: Appendix E

Postnatal survival, the mean number of pups born, the percentage of males at birth and live litter size on PND 0 in the 500, 1000 and 2500 ppm groups were unaffected by exposure to the test article. Differences from the control group were slight and were not statistically significant.

#### **6.2.8.2. GENERAL PHYSICAL CONDITION AND MORTALITIES**

Summary Data: Table 117

Individual Data: Table 226

The numbers of pups (litters) litters available for clinical signs were 286 (22), 348 (25), 316 (23) and 334 (24) for the control, 500, 1000 and 2500 ppm groups, respectively. The

numbers of pups found dead over the entire lactation period numbered 6, 11, 10 and 10 in the control, 500, 1000 and 2500 ppm groups, respectively. In the same respective exposure groups, 1, 4, 4 and 1 pups were missing and presumed cannibalized. The general condition of the pups in the test article exposure groups was similar to that in the control group; findings were noted infrequently and/or did not occur in an exposure concentration-related manner.

### **6.2.8.3. OFFSPRING BODY WEIGHTS**

Summary Data: Tables 118, 119

Individual Data: Tables 227, 228

Historical Control Data: Appendix E

No test article-related effects were observed on mean F<sub>2</sub> pup body weights or body weight gains. The F<sub>2</sub> control group litters were slightly smaller by approximately one pup than the 500 (PND 1 only), 1000 and 2500 ppm group litters (PND 1 and 4); however, the statistical analyses on mean body weight and body weight gains were performed using the litter size as the covariant. The F<sub>2</sub> control group pups generally weighed more than the F<sub>1</sub> control group pups in this study and the pups in the WIL historical control data for inhalation studies.

**Comparison of the F<sub>2</sub> Pup Weights (Grams) to the F<sub>1</sub> Control Group and the WIL Historical Control Data for Inhalation Studies and % Difference from F<sub>1</sub>/% Difference from Historical Control (HC)**

Postnatal Day % Difference	F <sub>1</sub> Control Group		WIL Historical Control		F <sub>2</sub> Control Group		F <sub>2</sub> 500 ppm Group		F <sub>2</sub> 1000 ppm Group		F <sub>2</sub> 2500 ppm Group	
	M	F	M	F	M	F	M	F	M	F	M	F
1	6.9	6.5	7.0	6.5	7.3	6.9	6.8a	6.3a	6.8a	6.4a	7.1	6.6
% from F <sub>1</sub>	NA	NA	NA	NA	+6	+6	-1	-3	-1	-2	+3	+2
% from HC	NA	NA	NA	NA	+4	+6	-3	-3	-3	-2	+1	+2
4	9.4	9.0	9.6	9.1	10.4	9.8	9.2b	8.6b	9.6	9.1	10.3	9.6
% from F <sub>1</sub>	NA	NA	NA	NA	+11	+9	-2	-4	+2	+1	+10	+7
% from HC	NA	NA	NA	NA	+8	+8	-4	-5	0	0	+7	+5
7	12.9	12.5	13.8	13.0	14.6	13.9	12.1b	11.8b	13.3	12.6a	14.4	13.6
% from F <sub>1</sub>	NA	NA	NA	NA	+13	+11	-6	-6	+3	+1	+12	+9
% from HC	NA	NA	NA	NA	+6	+7	-12	-9	-4	-3	+4	+5
14	24.0	23.3	26.1	24.9	27.3	26.2	24.2b	23.6a	25.2	24.0	26.0	24.6
% from F <sub>1</sub>	NA	NA	NA	NA	+14	+12	+1	+1	+5	+3	+8	+6
% from HC	NA	NA	NA	NA	+5	+5	-7	-5	-3	-4	0	-1
21	38.5	36.9	41.7	40.0	43.9	41.9	36.8b	35.8b	37.5b	35.8b	39.2a	37.2a
% from F <sub>1</sub>	NA	NA	NA	NA	+14	+14	-4	-3	-3	-3	+2	+1
% from HC	NA	NA	NA	NA	+5	+5	-12	-11	-10	-11	-6	-7

a = Significantly different from F<sub>2</sub> control group at 0.05 using Student's T-test  
b = Significantly different from F<sub>2</sub> control group at 0.01 using Student's T-test  
NA = Not Applicable

The slightly increased litter sizes (0.8-1.1 pups/dam) in the 1000 and 2500 ppm groups correlated with concomitant reductions in F<sub>2</sub> mean pup body weights (7% and 3%, respectively, in the males; 7% and 4%, respectively, in the females) on PND 1. Mean pup F<sub>2</sub> body weights in the 500 ppm group males and females were 7% and 9%, respectively, lower than the concurrent control group values on PND 1. The differences in the 500 and

1000 ppm groups were statistically significant ( $p < 0.05$ ) compared to the control group values. However, the F<sub>2</sub> mean male and female pup weights in the concurrent control group on PND 1 were 4%-6% greater than the mean male and female pup weights in the inhalation studies in the WIL historical control data and 6% greater than the concurrent control group pups in the F<sub>1</sub> generation in this study. Mean body weight gain in the 1000 and 2500 ppm group males and females were similar to the control group values during PND 1-4. Mean body weight gains in the 500 ppm group males and females were decreased (statistically significant at  $p < 0.05$ ) compared to the control group values during PND 1-4. On PND 4, mean male pup body weights were 12%, 8% and 1% lower than the concurrent control group value in the 500, 1000 and 2500 ppm groups, respectively; mean female pup weights were 12%, 7% and 2% lower in the same respective groups. The differences in both genders were statistically significant ( $p < 0.01$ ) only in the 500 ppm group. However, the concurrent F<sub>2</sub> control group male and female mean body weights were 8% greater than those in the WIL historical control data for inhalation studies and 11% and 9% greater than the mean F<sub>1</sub> male and female pup weights, respectively, on PND 4. Due to the lack of effects in the 1000 and 2500 ppm groups, the apparent influence of litter size on mean pup weights and the difference of the concurrent control group values compared to the historical control data for inhalation studies, the differences in mean body weights and body weight gains in the F<sub>2</sub> pups during PND 1-4 were not attributed to test article exposure.

Following standardization of litters (to eight pups/dam) on PND 4, mean male and female pup weights in the 500 ppm group were 17% and 15%, respectively, lower than the concurrent control group values (statistically significant at  $p < 0.01$ ) on PND 7. Mean male and female pup weights in the 1000 ppm group were 9% lower than the concurrent control group values; the difference was statistically significant ( $p < 0.05$ ) only for the females. Mean pup body weights in the 2500 ppm group were unaffected by F<sub>1</sub> maternal exposure on PND 7. Mean body weights gains in the 500 and 1000 ppm groups were reduced during PND 4-7. The differences from the control group were statistically

significant ( $p < 0.01$ ) only for the 500 ppm group males and females. Mean body weight gains in the 2500 ppm group males and females was slightly (not statistically significant) less than those in the concurrent control group, but consistent with the calculated gain in the WIL historical control data for inhalation studies. The mean body weight gains in the 1000 and 2500 ppm groups were comparable to those in the F<sub>1</sub> control group. Due to the lack of effect at the highest exposure concentration and the difference of the concurrent control group values from the historical control values, these differences in F<sub>2</sub> postnatal body weights and body weight gains were not considered exposure-related.

On PND 14, mean male and female pup body weights in the 500 ppm group were 11% and 10%, respectively, lower than the concurrent control group values; the differences were statistically significant ( $p < 0.05$  or  $p < 0.01$ ). The mean body weights for the 1000 and 2500 ppm group males and females were similar to the historical control values for inhalation studies, but were lower (5%-8%) than the concurrent control group values (not statistically significant). In addition, the PND 14 mean body weights for the 500, 1000 and 2500 ppm group males and females were comparable to or greater than the values for the F<sub>1</sub> control group pups. Mean body weight gains in the 500, 1000 and 2500 ppm group males and females were slightly reduced (not statistically significant) compared to the concurrent control group values during PND 7-14. The concurrent control group values during this interval were 3% higher than the calculated mean gain in the WIL historical control data for inhalation studies. In addition, mean F<sub>2</sub> body weight gains in all groups during PND 7-14 were equal to or higher than the gain in the F<sub>1</sub> control group pups at this same interval. Due to the lack of effect in the 1000 and 2500 ppm groups and the difference of the concurrent F<sub>2</sub> control group values compared to the F<sub>1</sub> control group values, the differences in mean body weights on PND 14 was not considered exposure-related.

On PND 21, mean male and female pups body weights in the 500, 1000 and 2500 ppm groups were reduced (statistically significant at  $p < 0.05$  or  $p < 0.01$ ) compared to the concurrent control group values. However, the F<sub>2</sub> control group values on this day were

14% higher than the F<sub>1</sub> pups on PND 21 and 5% higher than the mean body weight on PND 21 in the WIL historical control data for inhalation studies. The 2500 ppm group values were higher than the F<sub>1</sub> control group values, while the 500 and 1000 ppm group values were lower than the F<sub>1</sub> control group and the inhalation historical control group values. Mean body weight gains in the 500, 1000 and 2500 ppm group males and females were also reduced (statistically significant at p<0.01) compared to the concurrent control group value. Mean body weight gains in these groups were also reduced compared to the F<sub>1</sub> control group value and the calculated value in the WIL historical control data. However, the most severe reductions occurred in the 1000 ppm group males and females and the least severe reductions were observed in the 2500 ppm group males and females. Therefore, these reductions were not considered exposure-related due to the lack of an exposure-response relationship.

#### **6.2.8.4. NECROPSIES OF PUPS FOUND DEAD**

Summary Data: Table 120

Individual Data: Table 229

No test article-related internal findings were observed in F<sub>2</sub> pups that were found dead. Pup no. 1 from the litter of dam no. 74789-09 in the control group had a mechanical injury consisting of fractured pubis, ischium and ilium bones and all sacral vertebrae. Pup no. 1 from the litter of dam no. 74748-11 in the 1000 ppm group had dark red discoloration of all lobes of the lungs. Aside from the presence or absence of milk in the stomach, no other internal findings were observed.

**6.2.8.5. NECROPSIES OF WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS - PND 21**

Summary Data: Table 121

Individual Data: Table 230

No test article-related internal findings were observed in the F<sub>2</sub> weanlings not selected for organ weights. Two pups each in the 500 and 1000 ppm groups had a dilated renal pelvis (unilateral). No other internal findings were observed.

**6.2.8.6. NECROPSIES OF WEANLINGS SELECTED FOR ORGAN WEIGHTS - PND 21**

**6.2.8.6.1. MACROSCOPIC EXAMINATION**

Summary Data: Table 122

Individual Data: Table 231

No test article-related internal findings were observed in the F<sub>2</sub> weanlings selected for organ weights. One pup in the 2500 ppm group had a dilated renal pelvis (unilateral). No other internal findings were observed.

**6.2.8.6.2. ORGAN WEIGHTS**

Summary Data: Tables 123, 124

Individual Data: Tables 232, 233

No test article-related effects on mean F<sub>2</sub> pup organ weights (absolute and relative to final body weight) were observed. Occasional statistically significant ( $p < 0.05$  or  $p < 0.01$ ) differences from the control group were noted in the 500, 1000 and 2500 ppm groups, but no exposure-related trends were evident.

## **7. CONCLUSIONS**

Exposure levels were selected based upon a reduction in response to external stimuli (during exposure) observed in a previous 90-day neurotoxicity study<sup>1</sup> and a non-statistically significant reduction in body weights and body weight changes during postnatal days 4-7 and 7-14 in pups from dams exposed to 2500 ppm isobutanol in a probe study<sup>2</sup>. Neither of these effects was observed in this definitive two-generation reproductive toxicity study.

F<sub>0</sub> and F<sub>1</sub> parental survival were unaffected by test article exposure in all exposure groups. No test article-related effects were observed on F<sub>0</sub> and F<sub>1</sub> reproductive performance (estrous cycles, mating and fertility indices, the mean number of days between pairing and coitus and the mean length of gestation), body weights, food consumption and food efficiency in the 500, 1000 and 2500 ppm group males or females. Spermatogenic endpoints (mean testicular and epididymal sperm numbers, sperm production rate, motility, progressive motility and the percentage of morphologically normal sperm) in the F<sub>0</sub> and F<sub>1</sub> test article-exposed groups were unaffected by test article exposure. There were no test article-related macroscopic findings or changes in mean organ weights in the F<sub>0</sub> or F<sub>1</sub> males and females in the 500, 1000 and 2500 ppm groups. Microscopic evaluation of the F<sub>0</sub> and F<sub>1</sub> males and females revealed no test article-related histopathologic lesions, including for animals that failed to breed or produce a litter. No test article-related effects on primordial follicle counts and corpora lutea counts were observed in the F<sub>1</sub> 2500 ppm group females. F<sub>1</sub> and F<sub>2</sub> pup survival and the general physical condition of the pups were unaffected by exposure to the test article. No test article-related effects on mean pup body weights were observed in the 500, 1000 or 2500 ppm group F<sub>1</sub> or F<sub>2</sub> pups. No test article-related macroscopic findings were observed in F<sub>1</sub> or F<sub>2</sub> pups that were found dead or euthanized at the scheduled necropsy. There were no test article-related changes in mean organ weights for the F<sub>1</sub> or F<sub>2</sub> pups. The mean day of acquisition of balanopreputial separation or vaginal patency and mean

body weights on the day of acquisition in the F<sub>1</sub> test article-exposed pups were not affected by the test article.

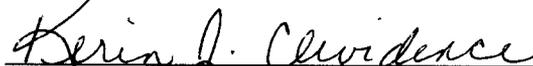
Based on the results of this study, an exposure level of 2500 ppm was considered to be the NOAEL (no-observed-adverse-effect level) for parental systemic, reproductive and neonatal toxicity of isobutanol when administered for two generations via whole-body inhalation exposure to rats.

**8. KEY STUDY PERSONNEL AND REPORT SUBMISSION**

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Report Prepared By:

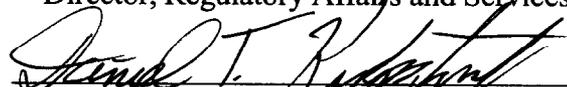
  
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Quality Control Coordinator,  
Study Analysis and Reports

11-13-03  
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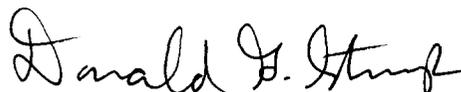
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**KEY STUDY PERSONNEL AND REPORT SUBMISSION (CONTINUED)**

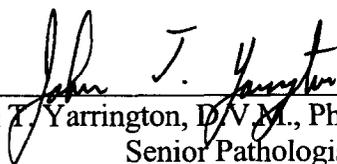
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11/13/03

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11/13/2003

Date

## 9. QUALITY ASSURANCE UNIT STATEMENT

### 9.1. PHASES INSPECTED

<u>Date(s) of Inspection(s)</u>	<u>Phase Inspected</u>	<u>Date(s) Findings Reported to Study Director</u>	<u>Date(s) Findings Reported to Management</u>
9/4/01	Test Article Exposure	9/4/01	10/31/01
10/29/01	Animal Care/Equipment	10/29/01	11/28/01
11/13-14/01	Cohabitation/Confirmation of Breeding	11/14/01	12/26/01
12/5/01	Test Article Exposure	12/5/01	1/31/02
1/10/02	Necropsy including Spermatogenic Evaluation	1/10/02	2/27/02
1/21/02	Animal Care/Equipment	1/21/02	2/27/02
2/4/02	Balanopreputial Separation	2/4/02	3/28/02
2/14/02	Trimming of Tissues	2/14/02	3/28/02
3/13/02	Test Article Exposure	3/14/02	4/30/02
4/29/02	Animal Care/Equipment	4/30/02	5/31/02
5/3/02	Lactation Clinical Observations/Body and Food Weights	5/3/02	6/28/02
5/28/02	Necropsy including Spermatogenic Evaluation	5/29/02	6/28/02
6/11/02	Trimming of Tissues	6/11/02	7/31/02
7/15-17/02, 10/22/02	Study Records (Ex-3)	10/23/02	11/27/02
7/19/02, 10/22/02	Study Records (Ex-5)	10/23/02	11/27/02
8/20-21/02, 10/21-22/02	Study Records (Ex-6)	10/22/02	11/27/02
8/21-22/02, 10/22/02	Study Records (Ex-7)	10/22/02	11/27/02
8/22-23/02, 10/24/02	Study Records (Ex-8)	10/25/02	11/27/02
8/23,26/02, 10/24/02	Study Records (Ex-9)	10/25/02	11/27/02
8/26-27/02, 10/24/02	Study Records (Ex-10)	10/25/02	11/27/02
8/28/02, 10/21-22/02	Study Records (Ex-11)	10/22/02	11/27/02
8/28-29/02, 9/3-4/02, 10/8-9, 28/02	Study Records (I-19)	10/29/02	11/27/02
9/4-5/02, 10/28/02	Study Records (Ex-12)	10/28/02	11/27/02
9/5-6,9,16/02, 10/3,17/02	Study Records (I-2)	10/21/02	11/27/02
9/9-10/02, 10/25/02	Study Records (Ex-13)	10/28/02	11/27/02
9/10-12,16/02, 10/7,28/02	Study Records (I-10)	10/29/02	11/27/02
9/12/02, 10/30/02	Study Records (Ex-14)	10/31/02	11/27/02
9/13/02, 10/24/02	Study Records (Ex-17)	10/25/02	11/27/02
9/13/02, 10/25/02	Study Records (Ex-16)	10/28/02	11/27/02
9/13/02, 10/28/02	Study Records (Ex-15)	10/29/02	11/27/02

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Isobutanol

<u>Date(s) of Inspection(s)</u>	<u>Phase Inspected</u>	<u>Date(s) Findings Reported to Study Director</u>	<u>Date(s) Findings Reported to Management</u>
9/17-18/02, 10/9,17/02	Study Records (N-1)	10/22/02	11/27/02
9/18-19/02, 10/9,18/02	Study Records (N-5)	10/22/02	11/27/02
9/19/02, 10/9- 10,18/02	Study Records (N-3)	10/22/02	11/27/02
9/20,23/02, 10/8,28/02	Study Records (I-14)	10/29/02	11/27/02
9/20,23/02, 10/3,17/02	Study Records (I-1)	10/21/02	11/27/02
9/23-24/02, 10/8,17/02	Study Records (I-13)	10/21/02	11/27/02
9/24-26/02, 10/7,18,21/02	Study Records (I-8)	10/22/02	11/27/02
9/26-27/02, 10/7,17/02	Study Records (I-12)	10/21/02	11/27/02
9/27,30/02, 10/18,21/02	Study Records (I-18)	10/22/02	11/27/02
9/28/02, 10/1,5,8- 9,14-18,21- 23,25,27,29- 31/02, 11/2,4- 8,11/02, 12/2- 4/02	Draft Report	12/4/02	1/31/03
10/2,14,18/02	Study Records (N-2)	10/21/02	11/27/02
10/2-3,9,18/02	Study Records (N-6)	10/22/02	11/27/02
10/3/02	Trimming of Tissues	10/4/02	11/27/02
10/14-15,18/02	Study Records (N-8)	10/22/02	11/27/02
10/14-15,18/02	Study Records (N-7)	10/21/02	11/27/02
10/16-17,28/02	Study Records (A-1,2)	10/29/02	11/27/02
10/17-18/02	Study Records (N-4)	10/22/02	11/27/02
10/21-24,29/02, 11/11-12/02	Study Records (Ex-2)	11/12/02	12/31/02
10/24,29/02, 11/11- 12/02	Study Records (Ex-2A)	11/12/02	12/31/02
10/25/02	Study Records (I-3)	10/25/02	11/27/02
10/25,28/02	Study Records (I-6)	10/28/02	11/27/02
10/28/02	Study Records (I-9)	10/28/02	11/27/02
10/28-29/02	Study Records (I-7)	10/29/02	11/27/02
10/29/03	Study Records (I-11)	10/30/02	11/27/02
10/29/02, 11/7,11/02	Study Records (Ex-4)	11/11/02	12/31/02
10/29/02, 11/7,11/02	Study Records (Ex-1)	11/11/02	12/31/02
10/30/02	Study Records (I-17)	10/31/02	11/27/02
10/30/02	Study Records (I-16)	10/31/02	11/27/02

<u>Date(s) of Inspection(s)</u>	<u>Phase Inspected</u>	<u>Date(s) Findings Reported to Study Director</u>	<u>Date(s) Findings Reported to Management</u>
10/31/02, 11/27/02, 12/2/02	Study Records (P-1)	12/2/02	1/31/03
10/31/02, 11/1,27/02, 12/2/02	Study Records (P-2)	12/2/02	1/31/03
11/1,27/02, 12/2/02	Study Records (P-3)	12/2/02	1/31/03
11/5,15/02	Study Records (H-1)	11/18/02	12/31/02
11/5,15/02	Study Records (H-2)	11/18/02	12/31/02
11/5,15/02	Study Records (H-3)	11/18/02	12/31/02
11/21/02, 12/4-6/02	Draft Inhalation Report	12/6/02	1/31/03
11/22,25,27/02	Study Records (I-4)	11/27/02	12/31/02
11/25-27/02	Study Records (I-5)	11/27/02	12/31/02
11/27/02, 12/2/02	Study Records (I-15)	12/2/02	1/31/03
11/27/02, 12/2/02	Study Records (H-1 Supplemental)	12/2/02	1/31/03
5/14/03	Study Records (H-4)	5/15/03	6/30/03
5/30/03	Study Records (P-4)	5/30/03	6/30/03

This study was inspected in accordance with the U.S. EPA Good Laboratory Practice Regulations (40 CFR Parts 160 and 792), the standard operating procedures of WIL Research Laboratories, Inc., and the sponsor's protocol and protocol amendments with the following exceptions. The data located in Appendix A (Test Article Characterization) were the responsibility of the sponsor. Quality Assurance findings, derived from the inspections during the conduct of the study and from the inspections of the raw data and draft report, are documented and have been reported to the study director. A status report is submitted to management monthly.

This report accurately reflects the data generated during the study. The methods and procedures used in the study were those specified in the protocol, its amendments and the standard operating procedures of WIL Research Laboratories, Inc.

The raw data, the retention sample(s), if applicable, and the final report will be stored in the Archives at WIL Research Laboratories, Inc., or another location specified by the sponsor.

**9.2. APPROVAL**

This study was inspected according to the criteria discussed in Section 9.1.

Report Audited By:

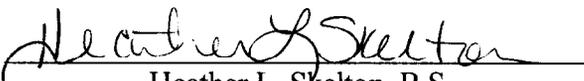
  
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R. Kelvin Mentzer, B.S.  
Auditor I, Quality Assurance

11/13/03  
\_\_\_\_\_  
Date

Margaret A. Franklin

Unit Supervisor, Quality Assurance

Report Released By:

  
\_\_\_\_\_  
Heather L. Skelton, B.S.  
Manager, Quality Assurance

11/13/03  
\_\_\_\_\_  
Date

## 10. REFERENCES

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## 11. DEVIATIONS FROM THE PROTOCOL

This study was conducted in accordance with the protocol and protocol amendments, except for the following.

- **Section 4.1.2.** Aerosol monitoring was not performed for the control- and high-concentration chambers during the method development phase. Monitoring was performed in a pilot study (WIL-186023<sup>1</sup>) at similar exposure levels.
- **Section 4.1.2.** Due to malfunctioning or loose connection of the multi-position sampling valve, less than 10 samples per chamber were available as follows:

<u>Date</u>	<u>Chamber</u>
September 11 and 21, 2001	4
September 13, 2001	2, 3, 4
October 31, November 6 and 27, 2001	4
February 15, 2002	1, 2, 3, 4
March 10, 2002	4
March 25, 2002	3, 4

- **Section 4.1.2.** On March 13, 2002, one of the rubber stoppers in the door of chamber 4 was ajar, allowing room air to be drawn into the chamber. Some negative pressure was maintained; however, due to the air being drawn into the bottom of the chamber, the air coming through the generation system stagnated at the top of the chamber around the sample probe. Concentration values for chamber 4 for the second and third sample rounds were in excess of 4000 ppm. The rubber stopper was replaced and the target concentration for chamber 4 returned to approximately 2500 ppm with no adjustments. Therefore, it was believed that the concentration within the chamber was actually elevated to the excessive levels, and the second and third concentration values were deleted.
- **Section 4.1.3.** The protocol and protocol amendments state the FMI pumps, pistons and test material flow rates to be used for test atmosphere generation. When compared to standard operating procedures, it was determined that the flow rates indicated in the protocol were incorrect for the pumps and pistons used in this study. The appropriate flow rates, pumps and pistons were documented in the system description and are maintained in the raw data.
- **Section 4.1.3.** The detector temperature was set at 175°C during the method development phase and remained at this temperature throughout the entire study. The protocol required the detector temperature to be 250°C.

- **Section 4.1.3.** Due to an equipment change (a new gas chromatograph was installed) on October 8, 2001, values for gas chromatograph settings stated in Protocol Amendment I were revised accordingly. It became apparent on this date that a malfunction was present in the gas chromatograph. Attempts to rectify the problem did not correct the malfunction. The exposure was run with samples taken both by the gas chromatograph and by taking Tedlar (manual) bag samples to be analyzed at a later time. At the end of the exposure, a new gas chromatograph was installed. Prior to the start of the exposure the next day (October 9, 2001), a single point calibration curve was generated to allow the use of the gas chromatograph for the duration of exposure that day. The second round of the prime calibration curve was generated prior to exposure on the following day (October 10, 2001), with the final round being generated following exposure that same day. Due to the large discrepancy in performing back-calculations of this prime calibration curve, another prime calibration curve was generated in triplicate on October 11, 2001. This new curve was entered into the computer prior to the initiation of exposure on October 12, 2001. The study director decided that the samples that were automatically collected by the data collection system were questionable since the instrument was not operating properly. These samples were not used in calculating the mean concentrations for October 8, 2001. The samples that were collected in Tedlar bags were analyzed using the new gas chromatograph calibration on October 9, 2001, and these values were used in mean concentration calculations.
- **Section 4.1.3.** On October 12, 2001, no negative pressure was recorded for the low-concentration chamber for the majority of the exposure period.
- **Section 4.1.3.** On November 4, 2001, the heat tape on the bead column for the 2500 ppm chamber malfunctioned. This was observed after a concentration of 1447 had been measured. A new heat tape was installed, which vaporized the test material in the bead column causing the concentration to rise to 3796 ppm. The following sample was within the appropriate concentration range.
- **Section 4.1.3.** During gestation, females were to be exposed daily until gestation 20, and exposure was to be suspended during gestation days 21 through lactation day 4. Female nos. 74816 (500 ppm group) and 74830 (1000 ppm group) had no evidence of mating, but were determined to be pregnant based on rapid weight gain. Exposure was suspended for these females, to avoid parturition occurring in the inhalation chamber, beginning on December 5, 2001 until lactation day 5. Female no. 74816 delivered on December 7, 2001 and female no. 74830 delivered on December 9, 2001.
- **Section 4.1.3.** F<sub>1</sub> males were to be exposed daily for a minimum of 70 days prior to mating. Exposure was suspended on January 24, 2002 for male no. 74766-02 (1000 ppm group) due to poor health, as recommended by the veterinarian and approved by the study director.

- **Section 4.3.** The protocol states that the F<sub>0</sub> animals were to be housed three per cage by sex for 3-5 days upon receipt. Documentation that these animals were triple-housed could not be located.
- **Section 4.3.** On December 10, 2001, the litter from F<sub>0</sub> female no. 74784 (2500 ppm group) was accidentally drowned on PND 2.
- **Section 4.5.** Temperature and humidity in the animal room were not recorded on December 23, 2001 or February 19, 2002.
- **Section 4.6.** Body weights at the initiation of the in-life phase were to range from 200 g to 300 g for the males. Actual male body weights ranged from 236 g to 350 g on study day 0. Animals were within the age range specified in the protocol
- **Section 5.1.1.** The responses to novel stimulus during exposure were not recorded for F<sub>0</sub> female no. 74743 (1000 ppm group) on January 12, 2002, for F<sub>1</sub> female no. 74789-09 (control group) on January 16, 2002 or for F<sub>1</sub> female no. 74867-07 (control group) on May 11, 2002.
- **Sections 5.1.2, 5.1.3 and 5.1.8.** On May 29, 2002, it was discovered at necropsy that the animal thought to be no. 74856-06 (eartag no. 83558) in the 500 ppm group was actually animal no. 74816-05 (eartag no. 83550) in the same group. Animal no. 74856-06 (eartag no. 83558) was inadvertently sent to necropsy on May 28, 2002 as animal no. 74816-05 (eartag no. 83550). It was noted that on May 22, 2002, the animal no. 74816-05 lost 102 grams and that animal no. 74856-06 gained 88 grams. In addition, the eartags for each animal were examined following necropsy and it was discovered that eartag no. 83558 was not clearly stamped. Therefore, it was deduced that between May 15 and 22, 2002, the animals were inadvertently misplaced into each other's caging. The body weight and food consumption data were deleted for these animals for May 22, 2002. Body weight and food consumption for May 28, 2002 were edited to reflect the proper data for each animal. Necropsy data were also edited accordingly.
- **Section 5.1.3.** On September 10, 2001, food left in the feed jars was not weighed for 14 F<sub>0</sub> males and all F<sub>0</sub> females in the control group. Therefore, food consumption data for study days 4-7 is incomplete (males) or not available (females) in the control group.
- **Section 5.4.2.** F<sub>1</sub> surplus pups with external abnormalities that were culled on PND 4 were to be sent to necropsy. Pup no. 74858-01 in the 1000 ppm group had a filamentous tail and was not sent to necropsy.
- **Sections 5.4.3. and 5.4.4.** F<sub>1</sub> pup no. 74743-09 (1000 ppm group) had no observations or body weight recorded on PND 4.

- **Section 5.6.** Upon review of the F<sub>1</sub> sperm motility data, it was discovered that two analyses were present for male no. 74864-06 (control group) and no analysis was present for male no. 74845-01 (control group). It was not possible to determine animal identity for the values. Therefore, neither was included in the report tables.
- **Section 5.8.1.** A section of the vastus medialis was collected for the skeletal muscle instead of the rectus femoris.
- **Section 5.8.3.** Skin with hair loss was trimmed and examined by the pathologist for male nos. 74619, 74720 (F<sub>0</sub>, 1000 and 2500 ppm groups, respectively) and 74772-02 (F<sub>1</sub>, control group) and female nos. 74844 and 74815 (F<sub>0</sub>, control group).
- **Section 5.8.3.** Tissues from 11 F<sub>0</sub> control group males, 11 F<sub>0</sub> 2500 ppm group females and 13 F<sub>1</sub> group females were processed and examined microscopically.

These deviations did not negatively impact the quality or integrity of the data nor the outcome of the study.

**TABLES 1 - 124**

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TABLE 1 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SURVIVAL AND DISPOSITION

PAGE 1

GROUP :	1				2				MALES 3				4			
	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE
0	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
1	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
2	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
3	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
4	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
5	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
6	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
7	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
8	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
9	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
10	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
11	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
12	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
13	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
14	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
15	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
16	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
17	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
18	7	0	0	23	8	0	0	22	7	0	0	23	8	0	0	22
19	0	0	0	7	0	0	0	8	0	0	0	7	0	0	0	8

WEEK = WEEK OF STUDY    FD = FOUND DEAD    EE = EUTHANIZED IN EXTREMIS    SE = SCHEDULED EUTHANASIA

1- 0 PPM    2- 500 PPM    3- 1000 PPM    4- 2500 PPM

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TABLE 2 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SURVIVAL AND DISPOSITION

PAGE 1

GROUP :	1				2				FEMALES 3				4				
	WEEK	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE
0	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
1	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
2	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
3	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
4	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
5	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
6	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
7	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
8	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
9	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
10	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
11	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
12	30	0	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
13	30	0	0	0	0	29	0	1	0	30	0	0	0	30	0	0	0
14	30	0	0	0	0	29	0	0	0	30	0	0	0	30	0	0	0
15	30	0	0	0	0	29	0	0	0	30	0	0	0	30	0	0	0
16	30	0	0	0	0	29	0	0	0	30	0	0	0	30	0	0	0
17	30	0	0	0	0	29	0	0	0	30	0	0	0	30	0	0	0
18	7	0	0	23	0	7	0	0	22	7	0	0	23	8	0	0	22
19	0	0	0	7	0	0	0	0	7	0	0	0	7	0	0	0	8

WEEK = WEEK OF STUDY    FD = FOUND DEAD    EE = EUTHANIZED IN EXTREMIS    SE = SCHEDULED EUTHANASIA

1- 0 PPM    2- 500 PPM    3- 1000 PPM    4- 2500 PPM

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PROJECT NO.:WIL-186013M  
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TABLE 3 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

	TABLE RANGE: GROUP:	09-04-01 1	TO 01-15-02 2	3	4		
-----							
NORMAL							
-NO SIGNIFICANT CLINICAL OBSERVATIONS		545/30	513/30	500/30	463/30		
DISPOSITION							
-SCHEDULED EUTHANASIA		30/30	30/30	30/30	30/30		
BODY/INTEGUMENT							
-HAIR LOSS RIGHT FORELIMB		33/ 8	54/ 6	55/ 5	111/10		
-HAIR LOSS LEFT FORELIMB		24/ 4	57/ 6	50/ 5	102/12		
-SCABBING RIGHT LATERAL NECK		0/ 0	3/ 1	0/ 0	0/ 0		
-HAIR LOSS LEFT HINDLIMB		0/ 0	0/ 0	1/ 1	0/ 0		
-SCABBING LEFT FORELIMB		1/ 1	1/ 1	0/ 0	0/ 0		
-SCABBING RIGHT FORELIMB		1/ 1	0/ 0	0/ 0	0/ 0		
EYES/EARS/NOSE							
-DRIED RED MATERIAL AROUND RIGHT EYE		6/ 3	11/ 2	9/ 2	19/ 2		
-DRIED RED MATERIAL AROUND LEFT EYE		7/ 2	10/ 1	31/ 3	14/ 1		
-DRIED RED MATERIAL AROUND NOSE		3/ 3	2/ 2	1/ 1	1/ 1		
EXCRETA							
-SOFT STOOL		3/ 2	1/ 1	5/ 4	0/ 0		
-DECREASED DEFECATION		1/ 1	0/ 0	0/ 0	0/ 0		
-----							
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

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PROJECT NO.:WIL-186013M  
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TABLE 3 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 2

----- M A L E -----

TABLE RANGE:		09-04-01 TO 01-15-02			
GROUP:		1	2	3	4
EXCRETA					
-DECREASED URINATION		1/ 1	0/ 0	0/ 0	0/ 0
ORAL/DENTAL					
-UPPER INCISORS MALALIGNED		7/ 3	15/ 2	27/ 4	19/ 2
-TEETH LONG, TRIMMED		13/ 8	14/ 3	16/ 4	14/ 2
-UPPER INCISOR MISSING		3/ 2	1/ 1	2/ 2	0/ 0
-SALIVATION		0/ 0	1/ 1	0/ 0	0/ 0
1-	0 PPM	2-	500 PPM	3-	1000 PPM
				4-	2500 PPM

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TABLE 4 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

TABLE RANGE:	09-04-01 TO 01-15-02			
GROUP:	1	2	3	4
NORMAL				
-NO SIGNIFICANT CLINICAL OBSERVATIONS	542/30	548/30	518/30	554/30
DISPOSITION				
-EUTHANIZED IN EXTREMIS	0/ 0	1/ 1	0/ 0	0/ 0
-SCHEDULED EUTHANASIA	30/30	29/29	30/30	30/30
BODY/INTEGUMENT				
-HAIR LOSS RIGHT FORELIMB	58/ 8	54/13	95/12	40/ 7
-HAIR LOSS LEFT FORELIMB	55/ 8	56/14	88/12	32/ 5
-APPARENT MECHANICAL INJURY DISTAL TAIL	0/ 0	2/ 1	0/ 0	0/ 0
-HAIR LOSS RIGHT ABDOMINAL AREA	2/ 1	0/ 0	9/ 1	0/ 0
-HAIR LOSS LEFT ABDOMINAL AREA	7/ 2	0/ 0	8/ 1	0/ 0
-SCABBING VENTRAL NECK	8/ 1	0/ 0	0/ 0	0/ 0
-HAIR LOSS LEFT HINDLIMB	12/ 2	0/ 0	3/ 1	1/ 1
-HAIR LOSS VENTRAL ABDOMINAL AREA	2/ 1	10/ 1	15/ 2	1/ 1
-HAIR LOSS BASE OF TAIL	0/ 0	0/ 0	2/ 1	0/ 0
-HAIR LOSS VENTRAL NECK	8/ 1	0/ 0	2/ 1	1/ 1
-HAIR LOSS RIGHT HINDLIMB	3/ 2	0/ 0	3/ 1	1/ 1
-FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)	6/ 1	0/ 0	0/ 0	0/ 0
-FIRM MOVABLE MASS LEFT THORACIC AREA (20MM X 30MM)	0/ 0	0/ 0	3/ 1	0/ 0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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 SPONSOR:ACC

TABLE 4 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 2

----- F E M A L E -----

TABLE RANGE:	09-04-01 TO 01-15-02			
GROUP:	1	2	3	4
BODY/INTEGUMENT				
-HAIR LOSS LEFT LATERAL THORACIC AREA	1/ 1	0/ 0	0/ 0	0/ 0
-SCABBING MANDIBULAR AREA	1/ 1	0/ 0	0/ 0	0/ 0
-SCABBING RIGHT HINDLIMB	2/ 1	0/ 0	0/ 0	0/ 0
-HAIR LOSS LUMBAR AREA	0/ 0	0/ 0	1/ 1	1/ 1
-HAIR LOSS VENTRAL THORACIC AREA	1/ 1	0/ 0	0/ 0	0/ 0
-EYES AND EARS PALE IN COLOR, APPEARS TO BE HAVING TROUBLE WITH DELIVERY	0/ 0	1/ 1	0/ 0	0/ 0
-WET RED DISCHARGE FROM VAGINA	0/ 0	1/ 1	0/ 0	0/ 0
EYES/EARS/NOSE				
-DRIED RED MATERIAL AROUND RIGHT EYE	2/ 1	1/ 1	15/ 1	29/ 4
-RED AND SWOLLEN RIGHT EAR	0/ 0	4/ 1	0/ 0	3/ 2
-RED AND SWOLLEN LEFT EAR	0/ 0	3/ 1	0/ 0	3/ 2
-DRIED RED MATERIAL AROUND NOSE	0/ 0	0/ 0	1/ 1	0/ 0
-DRIED RED MATERIAL AROUND LEFT EYE	0/ 0	0/ 0	9/ 2	2/ 2
-HAIR LOSS AROUND RIGHT EYE	0/ 0	0/ 0	1/ 1	0/ 0
EXCRETA				
-SOFT STOOL	0/ 0	0/ 0	1/ 1	0/ 0
ORAL/DENTAL				
-TEETH LONG, TRIMMED	3/ 2	0/ 0	6/ 1	17/ 2
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 4 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 3

----- F E M A L E -----

TABLE RANGE:	09-04-01 TO 01-15-02			
GROUP:	1	2	3	4
ORAL/DENTAL				
-UPPER INCISORS MALALIGNED	1/ 1	1/ 1	7/ 1	25/ 3
SPECIAL II				
-ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY	4/ 4	5/ 5	11/11	8/ 8
-ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY	20/20	20/20	17/17	18/18
-ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY	2/ 2	2/ 2	2/ 2	1/ 1
-ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY	4/ 4	2/ 2	0/ 0	3/ 3

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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TABLE 5 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

TABLE RANGE:		09-04-01 TO 01-14-02			
GROUP:	1	2	3	4	
AT TIME OF DOSING					
BEHAVIOR/CNS					
-NO REACTION TO STIMULUS	485/ 7	291/ 5	693/ 9	660/ 9	
-SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD	338/ 7	292/ 5	395/ 9	404/ 9	
-MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)	77/ 7	69/ 5	87/ 9	105/ 8	

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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TABLE 6 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

TABLE RANGE:		09-04-01 TO 01-14-02			
GROUP:	1	2	3	4	
AT TIME OF DOSING					
BEHAVIOR/CNS					
-NO REACTION TO STIMULUS	368/ 7	619/12	467/ 7	449/ 6	
-SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD	445/ 7	713/12	352/ 7	246/ 6	
-MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)	78/ 7	142/10	59/ 6	46/ 5	

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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PROJECT NO.:WIL-186013M  
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TABLE 7 (F0 MALES - 1-HOUR POST-EXPOSURE)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

-----  
TABLE RANGE: 09-04-01 TO 01-14-02  
GROUP: 1 2 3 4  
-----

THERE WERE NO SIGNIFICANT CLINICAL FINDINGS ONE HOUR FOLLOWING COMPLETION OF EXPOSURE

-----  
1- 0 PPM 2- 500 PPM 3- 1000 PPM 4- 2500 PPM  
-----

PCSUV4.04  
09/04/2002  
R:09/14/2002

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 8 (F0 FEMALES - 1-HOUR POST-EXPOSURE)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

-----  
TABLE RANGE: 09-04-01 TO 01-14-02  
GROUP: 1 2 3 4  
-----

THERE WERE NO SIGNIFICANT CLINICAL FINDINGS ONE HOUR FOLLOWING THE COMPLETION OF EXPOSURE

-----  
1- 0 PPM 2- 500 PPM 3- 1000 PPM 4- 2500 PPM  
-----

PCSUV4.04  
09/04/2002  
R:09/14/2002

TABLE 9 (F0)

PROJECT NO.:WIL-186013F  
SPONSOR:ACCINHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF REPRODUCTIVE PERFORMANCE

PAGE 1

DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
FEMALES ON STUDY	30		30		30		30	
FEMALES THAT DIED DURING STUDY	0		1-A		0		0	
FEMALES ALLOWED TO DELIVER	30		30		30		30	
NONGRAVID	8	26.7	1	3.3	2	6.7	2	6.7
GRAVID	22	73.3	29	96.7	28	93.3	28	93.3
DELIVERED	22	100.0	29	100.0-A	27	96.4	27	96.4
FEMALES WITH TOTAL LITTER LOSS	0	0.0	2	6.9	0	0.0	2	7.4
FEMALES WITH VIABLE PUPS	22	100.0	27	93.1	27	100.0	25	92.6
FEMALES WITH EVIDENCE OF MATING	26	86.7	29	96.7	28	93.3	30	100.0
NUMBER THAT DELIVERED	22	84.6	28	96.6-A	26	92.9	27	90.0
NUMBER THAT DID NOT DELIVER	4	15.4	1	3.4	2	7.1	3	10.0
FEMALES WITH NO EVIDENCE OF MATING	4	13.3	1	3.3	2	6.7	0	0.0
NUMBER THAT DELIVERED	0	0.0	1	100.0	1	50.0	0	0.0
NUMBER THAT DID NOT DELIVER	4	100.0	0	0.0	1	50.0	0	0.0
TOTAL FEMALES GRAVID	22	73.3	29	96.7	28	93.3	28	93.3

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: POSITIVE EVIDENCE OF MATING DURING THE BREEDING PERIOD WAS CONFIRMED BY THE PRESENCE OF SPERM IN A VAGINAL SMEAR  
OR A COPULATORY PLUG.A = FEMALE NO. 74805 DELIVERED 12 PUPS PRIOR TO BEING EUTHANIZED IN EXTREMIS DURING PARTURITION (GESTATION DAY 23), AND HAD FOUR  
FETUSES RETAINED IN UTERO; INCLUDED IN CALCULATIONS

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 9 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF REPRODUCTIVE PERFORMANCE

PAGE 2

DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
MALES ON STUDY	30		30		30		30	
MALES THAT DIED DURING STUDY	0		0		0		0	
MALES WITH EVIDENCE OF MATING	26	86.7	29	96.7	28	93.3	30	100.0
NO. THAT Sired A LITTER	22	84.6	28	96.6	27	96.4	28	93.3
NO. THAT DID NOT SIRE A LITTER	4	15.4	1	3.4	1	3.6	2	6.7
MALES WITH NO EVIDENCE OF MATING	4	13.3	1	3.3	2	6.7	0	0.0
NO. THAT Sired A LITTER	0	0.0	1	100.0	1	50.0	0	0.0
NO. THAT DID NOT SIRE A LITTER	4	100.0	0	0.0	1	50.0	0	0.0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: MALES WERE CONSIDERED TO HAVE Sired A LITTER IF THE PAIRED FEMALE WAS GRAVID, REGARDLESS OF DELIVERY STATUS  
 NOTE: POSITIVE EVIDENCE OF MATING DURING THE BREEDING PERIOD WAS CONFIRMED BY THE PRESENCE OF SPERM IN A VAGINAL SMEAR OR A COPULATORY PLUG.

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DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
MALE MATING INDEX	26/30	86.7	30/30	100.0	29/30	96.7	30/30	100.0
FEMALE MATING INDEX	26/30	86.7	30/30	100.0	29/30	96.7	30/30	100.0
MALE FERTILITY INDEX	22/30	73.3	29/30	96.7*	28/30	93.3	28/30	93.3
FEMALE FERTILITY INDEX	22/30	73.3	29/30	96.7*	28/30	93.3	28/30	93.3
MEAN PRE-COITAL INTERVALS (DAYS)	2.8	NA	2.3	NA	2.6	NA	3.0	NA
S.D.	1.83	NA	1.13	NA	1.52	NA	2.04	NA
N	26		29		28		30	

$$\text{MALE (FEMALE) MATING INDEX (\%)} = \frac{\text{NO. OF MALES (FEMALES) WITH EVIDENCE OF MATING (OR CONFIRMED PREGNANCY)}}{\text{TOTAL NO. OF MALES (FEMALES) USED FOR MATING}} \times 100$$

$$\text{MALE FERTILITY INDEX (\%)} = \frac{\text{NO. OF MALES SIRING A LITTER}}{\text{TOTAL NO. OF MALES USED FOR MATING}} \times 100$$

$$\text{FEMALE FERTILITY INDEX (\%)} = \frac{\text{NO. OF FEMALES WITH CONFIRMED PREGNANCY}}{\text{TOTAL NO. OF FEMALES USED FOR MATING}} \times 100$$

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: MALES WERE CONSIDERED TO HAVE Sired A LITTER IF THE PAIRED FEMALE WAS GRAVID, REGARDLESS OF DELIVERY STATUS

PRE-COITAL INTERVALS NOT SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP USING DUNNETT'S TEST

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP AT 0.05 USING CHI-SQUARE TEST

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 10 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF ESTROUS CYCLE DATA

PAGE 1

---

---- FEMALES ----

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
ESTROUS CYCLE LENGTH (DAYS)				
MEAN	5.3	4.3	4.4	4.7
S.D.	2.99	0.95	1.07	2.61
N	28	30	30	29

---

None significantly different from control group

PCYCV5.06  
09/14/2002

TABLE 11 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 0	MEAN	276.	274.	274.	274.
	S.D.	22.9	19.7	18.5	19.5
	N	30	30	30	30
1	MEAN	279.	278.	279.	277.
	S.D.	23.2	19.7	19.2	19.4
	N	30	30	30	30
4	MEAN	297.	293.	293.	292.
	S.D.	25.2	21.1	21.1	19.6
	N	30	30	30	30
7	MEAN	310.	305.	306.	304.
	S.D.	27.7	22.1	22.2	19.4
	N	30	30	30	30
14	MEAN	339.	334.	334.	334.
	S.D.	31.4	25.2	24.1	20.8
	N	30	30	30	30

None significantly different from control group

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TABLE 11 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 21	MEAN	365.	356.	357.	360.
	S.D.	31.7	29.5	27.1	24.3
	N	30	30	30	30
28	MEAN	389.	380.	380.	385.
	S.D.	39.1	32.1	31.9	26.5
	N	30	30	30	30
35	MEAN	409.	396.	399.	403.
	S.D.	34.9	33.7	32.1	27.6
	N	30	30	30	30
42	MEAN	427.	416.	416.	422.
	S.D.	41.5	39.7	34.5	31.7
	N	30	30	30	30
49	MEAN	443.	428.	434.	439.
	S.D.	40.4	38.7	34.7	34.4
	N	30	30	30	30

None significantly different from control group

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TABLE 11 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 56	MEAN	455.	442.	445.	455.
	S.D.	46.5	41.2	36.7	37.1
	N	30	30	30	30
63	MEAN	473.	459.	460.	469.
	S.D.	46.5	42.9	38.4	40.8
	N	30	30	30	30
70	MEAN	476.	470.	471.	479.
	S.D.	57.3	46.0	37.4	43.6
	N	30	30	30	30
77	MEAN	489.	481.	479.	491.
	S.D.	51.3	42.6	37.8	44.3
	N	30	30	30	30
84	MEAN	499.	494.	493.	503.
	S.D.	49.7	41.4	38.0	45.5
	N	30	30	30	30

None significantly different from control group

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TABLE 11 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91	MEAN	510.	504.	498.	512.
	S.D.	52.5	45.1	39.4	47.8
	N	30	30	30	30
98	MEAN	514.	504.	505.	515.
	S.D.	50.1	46.3	41.1	47.3
	N	30	30	30	30
105	MEAN	518.	513.	509.	521.
	S.D.	53.3	47.0	38.9	49.2
	N	30	30	30	30
112	MEAN	527.	522.	519.	531.
	S.D.	54.3	46.5	40.6	50.8
	N	30	30	30	30
119	MEAN	538.	528.	525.	538.
	S.D.	54.8	48.0	40.0	53.1
	N	30	30	30	30

None significantly different from control group

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TABLE 11 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF BODY WEIGHTS [G]

---

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 126	MEAN	535.	530.		526.	540.
	S.D.	51.7	47.6		42.9	52.8
	N	30	30		30	30
133	MEAN	547.	515.		544.	535.
	S.D.	31.4	32.7		64.8	29.0
	N	7	8		7	8

---

None significantly different from control group

TABLE 12 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 0	MEAN	188.	187.	188.	189.
	S.D.	11.9	11.4	12.2	12.4
	N	30	30	30	30
1	MEAN	188.	187.	188.	189.
	S.D.	12.1	12.8	14.0	11.5
	N	30	30	30	30
4	MEAN	199.	198.	199.	200.
	S.D.	13.3	12.2	13.1	13.0
	N	30	30	30	30
7	MEAN	206.	203.	206.	205.
	S.D.	14.7	12.4	14.3	14.4
	N	30	30	30	30
14	MEAN	227.	224.	224.	225.
	S.D.	15.0	15.7	14.9	14.8
	N	30	30	30	30

None significantly different from control group

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TABLE 12 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY	21	MEAN	238.	238.	237.	236.
		S.D.	16.1	16.8	18.2	16.1
		N	30	30	30	30
	28	MEAN	252.	253.	250.	250.
		S.D.	17.5	19.9	18.9	17.2
		N	30	30	30	30
	35	MEAN	260.	258.	257.	260.
		S.D.	18.6	18.8	17.4	19.0
		N	30	30	30	30
	42	MEAN	268.	268.	266.	266.
		S.D.	17.8	19.9	18.5	20.3
		N	30	30	30	30
	49	MEAN	280.	278.	276.	276.
		S.D.	19.3	21.5	18.4	20.4
		N	30	30	30	30

None significantly different from control group

TABLE 12 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY	56	MEAN	281.	279.	279.	279.
		S.D.	20.2	20.7	19.8	21.0
		N	30	30	30	30
	63	MEAN	287.	286.	284.	284.
		S.D.	21.3	24.8	21.2	23.2
		N	30	30	30	30
	70	MEAN	292.	292.	292.	291.
		S.D.	22.4	23.3	19.3	22.4
		N	30	30	30	30
	77	MEAN	308.	340.	296.	290.
		S.D.	19.9	0.0	7.1	0.0
		N	4	1	2	1
	84	MEAN	318.	365.	308.	A
		S.D.	15.0	0.0	7.1	
		N	4	1	2	

None significantly different from control group  
 A = REFER TO F0 GESTATION/LACTATION BODY WEIGHT TABLES

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TABLE 12 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91	MEAN	317.	425.	324.	A
	S.D.	10.3	0.0	32.5	
	N	4	1	2	
98	MEAN	312.	330.	331.	288.
	S.D.	14.1	0.0	41.7	0.0
	N	7	1	2	1
105	MEAN	312.	332.	346.	305.
	S.D.	19.2	0.0	34.7	12.7
	N	8	1	3	2
112	MEAN	315.	344.	341.	297.
	S.D.	19.8	0.0	29.0	11.0
	N	8	1	3	3
119	MEAN	320.	352.	350.	301.
	S.D.	15.9	0.0	30.1	8.0
	N	8	1	3	3

A = REFER TO F0 GESTATION/LACTATION BODY WEIGHT TABLES

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 12 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF BODY WEIGHTS [G]

PAGE 5

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GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY 126	MEAN	322.	320.		323.	319.
	S.D.	21.4	20.8		26.2	22.5
	N	28	29		29	30
133	MEAN	328.	325.		310.	324.
	S.D.	23.5	14.7		20.5	21.0
	N	7	7		7	8

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PBFSTv5.04  
09/04/2002  
R:12/08/2002

TABLE 13 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 0 TO 1	MEAN	3.	4.	5.	3.
	S.D.	3.9	3.2	3.5	3.4
	N	30	30	30	30
1 TO 4	MEAN	17.	16.	14.	15.
	S.D.	3.8	4.9	4.8	4.9
	N	30	30	30	30
4 TO 7	MEAN	13.	12.	13.	12.
	S.D.	6.2	4.8	4.2	5.5
	N	30	30	30	30
7 TO 14	MEAN	30.	29.	28.	30.
	S.D.	8.7	8.7	7.4	7.1
	N	30	30	30	30
14 TO 21	MEAN	26.	22.	23.	26.
	S.D.	7.2	10.4	7.5	9.6
	N	30	30	30	30

None significantly different from control group

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TABLE 13 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	24.	24.	23.	24.
	S.D.	10.2	8.2	9.1	8.8
	N	30	30	30	30
	28 TO 35				
	MEAN	20.	16.	19.	18.
	S.D.	9.8	7.8	9.4	6.7
	N	30	30	30	30
	35 TO 42				
	MEAN	18.	20.	17.	19.
	S.D.	9.4	10.0	7.7	7.9
	N	30	30	30	30
	42 TO 49				
	MEAN	16.	13.	18.	17.
	S.D.	6.8	7.3	7.1	8.1
	N	30	30	30	30
	49 TO 56				
	MEAN	11.	14.	12.	16.
	S.D.	10.9	6.5	6.8	7.5
	N	30	30	30	30

None significantly different from control group

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TABLE 13 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 56 TO 63	MEAN	18.	17.	15.	14.
	S.D.	6.8	5.7	8.7	8.6
	N	30	30	30	30
63 TO 70	MEAN	3.	11.	11.	10.
	S.D.	23.6	11.8	5.8	6.9
	N	30	30	30	30
70 TO 77	MEAN	13.	11.	8.	12.
	S.D.	18.5	9.5	8.9	7.6
	N	30	30	30	30
77 TO 84	MEAN	10.	14.	14.	12.
	S.D.	9.4	6.6	9.0	7.3
	N	30	30	30	30
84 TO 91	MEAN	11.	10.	5.*	9.
	S.D.	8.6	7.1	7.6	6.4
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 13 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 91 TO 98	MEAN	4.	0.		6.	3.
	S.D.	7.1	9.9		8.1	8.8
	N	30	30		30	30
98 TO 105	MEAN	4.	9.		5.	6.
	S.D.	11.0	6.6		7.7	9.1
	N	30	30		30	30
105 TO 112	MEAN	10.	9.		9.	10.
	S.D.	11.3	6.3		10.2	6.4
	N	30	30		30	30
112 TO 119	MEAN	10.	6.		7.	6.
	S.D.	8.9	5.4		8.2	8.1
	N	30	30		30	30
119 TO 126	MEAN	-2.	2.		1.	3.
	S.D.	10.1	6.8		8.7	6.7
	N	30	30		30	30

None significantly different from control group

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 13 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF BODY WEIGHT CHANGES [G]

PAGE 5

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GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	1.	3.	6.	-4.
S.D.	5.2	8.4	5.6	10.9
N	7	8	7	8

---

None significantly different from control group

PBFSTv5.04  
09/04/2002

TABLE 14 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	0.	0.	0.	0.
	S.D.	4.9	6.1	5.6	5.0
	N	30	30	30	30
	1 TO 4				
	MEAN	11.	11.	11.	11.
	S.D.	4.2	5.1	5.1	4.5
	N	30	30	30	30
	4 TO 7				
	MEAN	7.	5.	7.	5.
	S.D.	5.7	6.1	4.2	5.4
	N	30	30	30	30
	7 TO 14				
	MEAN	21.	21.	18.	20.
	S.D.	5.6	5.8	5.8	5.6
	N	30	30	30	30
	14 TO 21				
	MEAN	11.	14.	13.	11.
	S.D.	6.0	5.7	7.4	6.8
	N	30	30	30	30

None significantly different from control group

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TABLE 14 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	14.	15.	12.	14.
	S.D.	4.8	6.9	6.0	5.1
	N	30	30	30	30
	28 TO 35				
	MEAN	8.	6.	7.	11.
	S.D.	5.5	6.3	9.5	5.7
	N	30	30	30	30
	35 TO 42				
	MEAN	8.	10.	9.	5.
	S.D.	5.5	6.0	9.0	7.1
	N	30	30	30	30
	42 TO 49				
	MEAN	12.	9.	10.	10.
	S.D.	5.4	5.5	7.2	6.8
	N	30	30	30	30
	49 TO 56				
	MEAN	1.	1.	3.	3.
	S.D.	6.7	6.9	6.6	8.4
	N	30	30	30	30

None significantly different from control group

TABLE 14 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 56 TO 63	MEAN	6.	8.	6.	5.
	S.D.	7.1	10.9	8.0	6.3
	N	30	30	30	30
63 TO 70	MEAN	5.	6.	7.	7.
	S.D.	5.6	6.9	7.3	9.3
	N	30	30	30	30
70 TO 77	MEAN	5.	30.	13.	-11.
	S.D.	8.3	0.0	19.8	0.0
	N	4	1	2	1
77 TO 84	MEAN	9.	25.	12.	A
	S.D.	5.4	0.0	14.1	
	N	4	1	2	
84 TO 91	MEAN	0.	60.	16.	A
	S.D.	5.3	0.0	25.5	
	N	4	1	2	

None significantly different from control group  
 A = REFER TO F0 GESTATION/LACTATION BODY WEIGHT TABLES

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TABLE 14 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91 TO 98	MEAN	-1.	A	0.	A
	S.D.	6.7		0.0	
	N	4		1	
98 TO 105	MEAN	1.	2.	1.	8.
	S.D.	10.2	0.0	7.1	0.0
	N	7	1	2	1
105 TO 112	MEAN	3.	12.	-5.	-13.
	S.D.	4.7	0.0	9.0	21.2
	N	8	1	3	2
112 TO 119	MEAN	5.	8.	9.	4.
	S.D.	15.4	0.0	2.0	10.8
	N	8	1	3	3
119 TO 126	MEAN	13.	1.	11.	6.
	S.D.	5.7	0.0	11.5	19.2
	N	8	1	3	3

None significantly different from control group  
 A = REFER TO F0 GESTATION/LACTATION BODY WEIGHT TABLES

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 14 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF BODY WEIGHT CHANGES [G]

PAGE 5

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GROUP:	0 PPM	----- F E M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	-2.	10.	2.	5.
S.D.	13.0	9.9	11.5	7.4
N	7	7	7	8

---

None significantly different from control group

PBFSTv5.04  
09/04/2002  
R:09/27/2002

TABLE 15 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 0 TO 1	MEAN	3.	4.	5.	3.
	S.D.	3.9	3.2	3.5	3.4
	N	30	30	30	30
0 TO 4	MEAN	20.	19.	19.	18.
	S.D.	5.2	6.3	6.3	4.3
	N	30	30	30	30
0 TO 7	MEAN	33.	32.	31.	30.
	S.D.	9.5	7.7	8.2	7.8
	N	30	30	30	30
0 TO 14	MEAN	63.	60.	60.	60.
	S.D.	15.6	13.9	12.3	12.7
	N	30	30	30	30
0 TO 21	MEAN	89.	83.	82.	87.
	S.D.	18.2	20.5	16.4	17.4
	N	30	30	30	30

None significantly different from control group

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GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 28				
	MEAN	113.	106.	105.	111.
	S.D.	24.3	23.8	23.1	22.9
	N	30	30	30	30
	0 TO 35				
	MEAN	133.	122.	124.	129.
	S.D.	22.7	27.1	22.9	24.1
	N	30	30	30	30
	0 TO 42				
	MEAN	150.	142.	141.	148.
	S.D.	28.0	32.6	26.6	27.1
	N	30	30	30	30
	0 TO 49				
	MEAN	167.	155.	159.	165.
	S.D.	28.1	32.7	26.8	28.5
	N	30	30	30	30
	0 TO 56				
	MEAN	178.	169.	171.	181.
	S.D.	33.7	34.6	29.1	31.2
	N	30	30	30	30

None significantly different from control group

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TABLE 15 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 63				
	MEAN	196.	186.	186.	195.
	S.D.	33.3	36.7	31.4	33.4
	N	30	30	30	30
	0 TO 70				
	MEAN	200.	196.	197.	205.
	S.D.	45.4	39.4	30.4	35.6
	N	30	30	30	30
	0 TO 77				
	MEAN	213.	207.	205.	217.
	S.D.	36.8	35.6	30.2	36.5
	N	30	30	30	30
	0 TO 84				
	MEAN	223.	221.	218.	229.
	S.D.	36.2	34.2	30.4	39.0
	N	30	30	30	30
	0 TO 91				
	MEAN	233.	230.	224.	238.
	S.D.	39.7	38.0	32.9	40.9
	N	30	30	30	30

None significantly different from control group

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TABLE 15 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY	0 TO 98					
	MEAN	238.	230.		230.	241.
	S.D.	37.3	39.6		34.1	40.0
	N	30	30		30	30
	0 TO 105					
	MEAN	241.	239.		235.	247.
	S.D.	40.9	40.2		31.3	41.1
	N	30	30		30	30
	0 TO 112					
	MEAN	251.	248.		244.	258.
	S.D.	41.9	39.5		33.5	42.0
	N	30	30		30	30
	0 TO 119					
	MEAN	261.	254.		251.	264.
	S.D.	41.4	40.9		33.3	44.7
	N	30	30		30	30
	0 TO 126					
	MEAN	259.	256.		252.	267.
	S.D.	40.0	39.9		36.0	44.7
	N	30	30		30	30

None significantly different from control group

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SPONSOR:ACC

TABLE 15 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

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GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
DAY	0 TO 133		500 PPM			
	MEAN	272.	241.		267.	256.
	S.D.	32.1	28.5		58.2	25.3
	N	7	8		7	8

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TABLE 16 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	0.	0.	0.	0.
	S.D.	4.9	6.1	5.6	5.0
	N	30	30	30	30
	0 TO 4				
	MEAN	11.	11.	12.	11.
	S.D.	4.0	3.4	4.2	4.5
	N	30	30	30	30
	0 TO 7				
	MEAN	18.	16.	18.	16.
	S.D.	7.8	7.1	6.1	7.3
	N	30	30	30	30
	0 TO 14				
	MEAN	39.	37.	36.	36.
	S.D.	6.8	8.4	7.6	9.2
	N	30	30	30	30
	0 TO 21				
	MEAN	50.	51.	49.	47.
	S.D.	8.7	11.0	10.2	11.0
	N	30	30	30	30

None significantly different from control group

TABLE 16 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 28				
	MEAN	64.	66.	62.	61.
	S.D.	10.0	13.2	10.6	10.8
	N	30	30	30	30
0 TO 35	MEAN	72.	71.	69.	71.
	S.D.	11.4	13.8	13.0	13.4
	N	30	30	30	30
0 TO 42	MEAN	80.	81.	78.	77.
	S.D.	10.7	14.5	12.2	16.0
	N	30	30	30	30
0 TO 49	MEAN	92.	91.	88.	87.
	S.D.	12.5	15.4	11.4	15.5
	N	30	30	30	30
0 TO 56	MEAN	93.	92.	91.	90.
	S.D.	14.7	16.0	12.7	16.1
	N	30	30	30	30

None significantly different from control group

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TABLE 16 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 63				
	MEAN	99.	99.	96.	95.
	S.D.	15.4	18.4	15.3	19.2
	N	30	30	30	30
	0 TO 70				
	MEAN	104.	105.	104.	102.
	S.D.	15.4	17.9	12.5	18.4
	N	30	30	30	30
	0 TO 77				
	MEAN	115.	146.	108.	95.
	S.D.	14.5	0.0	7.1	0.0
	N	4	1	2	1
	0 TO 84				
	MEAN	124.	171.	120.	A
	S.D.	10.2	0.0	21.2	
	N	4	1	2	
	0 TO 91				
	MEAN	124.	231.	136.	A
	S.D.	10.3	0.0	46.7	
	N	4	1	2	

None significantly different from control group  
 A = REFER TO F0 GESTATION/LACTATION BODY WEIGHT TABLES

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TABLE 16 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

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GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 98				
	MEAN	121.	120.	133.	122.
	S.D.	10.7	0.0	41.7	0.0
	N	7	1	2	1
	0 TO 105				
	MEAN	122.	122.	149.	129.
	S.D.	14.7	0.0	36.8	1.4
	N	8	1	3	2
	0 TO 112				
	MEAN	124.	134.	144.	115.
	S.D.	14.3	0.0	31.5	16.1
	N	8	1	3	3
	0 TO 119				
	MEAN	130.	142.	153.	119.
	S.D.	14.7	0.0	32.5	7.0
	N	8	1	3	3
	0 TO 126				
	MEAN	133.	134.	135.	131.
	S.D.	16.9	19.1	19.9	22.4
	N	28	29	29	30

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TABLE 16 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

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GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
DAY	0 TO 133		500 PPM			
	MEAN	139.	132.		129.	138.
	S.D.	16.8	11.1		15.4	21.0
	N	7	7		7	8

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TABLE 17 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS DURING GESTATION [G]

GROUP :		1	2	3	4		
DAY 0	MEAN	287.	288.	287.	290.		
	S.D./N	20.8/22	22.8/28	20.3/27	21.6/28		
DAY 4	MEAN	298.	298.	304.	303.		
	S.D./N	23.7/22	24.6/28	25.2/27	31.5/28		
DAY 7	MEAN	312.	311.	312.	307.		
	S.D./N	27.4/22	22.8/28	29.2/27	34.4/28		
DAY 11	MEAN	327.	325.	329.	329.		
	S.D./N	25.5/22	23.0/28	24.0/27	27.3/28		
DAY 14	MEAN	338.	337.	340.	342.		
	S.D./N	26.2/22	24.6/28	23.2/27	26.0/28		
DAY 20	MEAN	405.	402.	406.	409.		
	S.D./N	33.8/22	33.0/28	32.6/27	37.1/28		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 18 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	11.	11.	17.	14.		
	S.D./N	14.4/22	12.3/28	14.8/27	16.6/28		
DAY	4- 7 MEAN	14.	13.	8.	4.		
	S.D./N	16.9/22	13.1/28	7.1/27	18.4/28		
DAY	7- 11 MEAN	15.	14.	17.	21.		
	S.D./N	12.1/22	7.5/28	14.2/27	17.2/28		
DAY	11- 14 MEAN	11.	12.	11.	13.		
	S.D./N	6.2/22	4.9/28	7.0/27	6.6/28		
DAY	14- 20 MEAN	67.	66.	65.	67.		
	S.D./N	14.9/22	15.3/28	19.5/27	17.9/28		
DAY	0- 20 MEAN	118.	114.	118.	119.		
	S.D./N	21.9/22	20.2/28	25.7/27	24.0/28		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 19 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS DURING LACTATION [G]

GROUP :		1	2	3	4		
DAY 1	MEAN	304.	307.	304.	310.		
	S.D./N	25.2/22	23.6/28	21.1/27	21.6/27		
DAY 4	MEAN	320.	320.	320.	325.		
	S.D./N	28.7/22	27.2/28	21.1/27	24.4/26		
DAY 7	MEAN	327.	323.	326.	336.		
	S.D./N	28.5/22	31.6/28	21.5/27	23.7/26		
DAY 14	MEAN	338.	336.	346.	354.		
	S.D./N	31.1/22	30.7/27	29.2/27	28.9/26		
DAY 21	MEAN	355.	357.	357.	361.		
	S.D./N	30.2/22	25.8/26	26.7/27	22.6/25		
DAY 28	MEAN	302.	324.*	314.	317.		
	S.D./N	32.7/22	22.6/26	26.6/27	23.3/25		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\* = Significantly different from the control group at 0.05 using Dunnett's test

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 SPONSOR:ACC

TABLE 20 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES DURING LACTATION [G]

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GROUP :		1	2	3	4		
DAY	1- 4 MEAN	16.	13.	16.	13.		
	S.D./N	11.7/22	11.5/28	10.8/27	10.4/26		
DAY	4- 7 MEAN	8.	3.	6.	12.		
	S.D./N	11.4/22	16.4/28	8.7/27	7.8/26		
DAY	7- 14 MEAN	11.	10.	20.	18.		
	S.D./N	31.1/22	24.3/27	19.9/27	13.7/26		
DAY	14- 21 MEAN	17.	21.	11.	5.		
	S.D./N	34.5/22	35.7/26	25.4/27	19.3/25		
DAY	21- 28 MEAN	-53.	-33.**	-43.	-44.		
	S.D./N	21.7/22	26.5/26	20.4/27	18.4/25		
DAY	1- 28 MEAN	-1.	17.**	10.	4.		
	S.D./N	22.7/22	20.7/26	17.3/27	18.1/25		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\*\* = Significantly different from the control group at 0.01 using Dunnett's test  
 MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES

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 07/08/2003

TABLE 21 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	26.	27.	28.	25.
	S.D.	3.1	2.5	3.0	2.6
	N	30	30	30	30
1 TO 4	MEAN	26.	26.	27.	26.
	S.D.	2.2	2.3	2.6	1.6
	N	30	30	30	30
4 TO 7	MEAN	25.	25.	24.	23.
	S.D.	2.3	2.4	1.8	3.8
	N	16-A	30	30	30
7 TO 14	MEAN	25.	24.	25.	24.
	S.D.	2.3	2.5	1.8	1.7
	N	30	30	30	30
14 TO 21	MEAN	26.	25.	25.	24.
	S.D.	2.4	2.6	1.9	2.0
	N	30	30	30	30

None significantly different from control group  
 A = TECHNICAL ERROR, FOOD DATA ONLY RECORDED FOR 16 ANIMALS

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TABLE 21 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	26.	25.	26.	25.
	S.D.	2.3	2.3	2.1	1.8
	N	30	30	30	30
	28 TO 35				
	MEAN	27.	26.	27.	25.*
	S.D.	2.0	2.2	1.9	1.9
	N	30	30	30	30
	35 TO 42				
	MEAN	27.	26.	27.	26.
	S.D.	2.8	2.4	1.9	1.8
	N	30	30	30	30
	42 TO 49				
	MEAN	27.	26.	27.	26.
	S.D.	2.5	2.3	1.8	1.8
	N	30	30	30	30
	49 TO 56				
	MEAN	27.	27.	27.	26.
	S.D.	3.3	2.4	2.0	2.2
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

TABLE 21 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 56 TO 63	MEAN	27.	27.	27.	26.
	S.D.	2.4	2.3	1.8	2.4
	N	30	30	30	30
63 TO 70	MEAN	26.	26.	26.	26.
	S.D.	4.5	2.4	1.7	2.1
	N	30	30	30	30
70 TO 84	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD				
84 TO 91	MEAN	27.	26.	26.	26.
	S.D.	2.8	2.6	1.6	2.0
	N	30	30	30	30

None significantly different from control group

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TABLE 21 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91 TO 98	MEAN	27.	26.	26.	25.
	S.D.	2.4	2.8	2.0	2.0
	N	30	30	30	30
98 TO 105	MEAN	27.	27.	27.	26.
	S.D.	3.1	2.2	1.9	1.8
	N	30	30	30	30
105 TO 112	MEAN	28.	27.	27.	26.
	S.D.	2.9	2.3	2.3	2.2
	N	30	30	30	30
112 TO 119	MEAN	27.	27.	26.	26.
	S.D.	2.5	2.6	1.6	2.3
	N	30	30	30	30
119 TO 126	MEAN	24.	25.	24.	24.
	S.D.	2.4	2.5	1.8	2.5
	N	30	30	30	30

None significantly different from control group

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SPONSOR:ACC

TABLE 21 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

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GROUP:	----- M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	23.	23.	24.	22.
S.D.	1.3	3.3	1.5	1.8
N	7	8	7	8

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TABLE 22 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	17.	17.	17.	17.
	S.D.	3.3	2.9	2.8	2.2
	N	30	30	30	30
1 TO 4	MEAN	19.	18.	18.	19.
	S.D.	1.9	1.2	1.5	1.9
	N	30	30	30	30
4 TO 7	MEAN	A	19.	19.	19.
	S.D.		1.5	1.5	1.7
	N		30	30	30
7 TO 14	MEAN	19.	20.	19.	19.
	S.D.	1.3	2.1	1.6	1.3
	N	30	30	30	30
14 TO 21	MEAN	20.	20.	20.	20.
	S.D.	1.7	2.2	2.2	1.7
	N	30	30	30	30

None significantly different from control group  
 A = TECHNICAL ERROR, FOOD CONSUMPTION NOT RECORDED

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TABLE 22 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	21.	21.	20.	20.
	S.D.	1.6	1.9	1.9	1.9
	N	30	30	30	30
	28 TO 35				
	MEAN	21.	21.	21.	21.
	S.D.	1.6	1.7	1.6	1.6
	N	30	30	30	30
	35 TO 42				
	MEAN	21.	21.	21.	20.
	S.D.	1.7	1.8	1.7	2.2
	N	30	30	30	30
	42 TO 49				
	MEAN	21.	20.	21.	20.
	S.D.	1.7	1.6	1.8	2.0
	N	30	30	30	30
	49 TO 56				
	MEAN	21.	20.	21.	21.
	S.D.	3.5	1.9	1.8	2.2
	N	30	30	30	30

None significantly different from control group

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TABLE 22 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	56 TO 63				
	MEAN	20.	20.	21.	20.
	S.D.	2.0	1.9	1.7	2.1
	N	30	30	30	30
	63 TO 70				
	MEAN	20.	20.	20.	20.
	S.D.	1.7	1.8	1.9	1.6
	N	30	30	30	30
	70 TO 84	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
	84 TO 91				
	MEAN	21.	23.	20.	B
	S.D.	1.9	0.0	2.8	
	N	4	1	2	

None significantly different from control group  
 B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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TABLE 22 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY 91 TO 98	MEAN	19.	B		19.	B
	S.D.	1.7			0.0	
	N	4			1	
98 TO 105	MEAN	20.	20.		19.	17.
	S.D.	2.1	0.0		0.7	0.0
	N	7	1		2	1
105 TO 112	MEAN	20.	20.		20.	19.
	S.D.	2.7	0.0		2.6	1.4
	N	8	1		3	2
112 TO 119	MEAN	20.	18.		21.	20.
	S.D.	2.4	0.0		3.2	4.0
	N	8	1		3	3
119 TO 126	MEAN	23.	20.		23.	20.
	S.D.	3.5	0.0		1.5	1.7
	N	8	1		3	3

B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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TABLE 22 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

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GROUP:	0 PPM	----- F E M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	21.	23.	20.	21.
S.D.	2.4	3.4	1.6	2.3
N	7	7	7	8

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TABLE 23 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 0 TO 1	MEAN	94.	98.	100.*	91.
	S.D.	8.5	7.4	11.2	10.4
	N	30	30	30	30
1 TO 4	MEAN	89.	90.	91.	88.
	S.D.	4.8	4.7	9.0	5.4
	N	30	30	30	30
4 TO 7	MEAN	80.	81.	80.	77.
	S.D.	3.8	4.8	5.6	11.6
	N	16-A	30	30	30
7 TO 14	MEAN	73.	73.	75.	71.
	S.D.	4.8	4.2	5.3	3.9
	N	30	30	30	30
14 TO 21	MEAN	70.	70.	70.	67.*
	S.D.	3.9	4.4	5.1	3.8
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 A = TECHNICAL ERROR, FOOD CONSUMPTION ONLY RECORDED FOR 16 ANIMALS

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TABLE 23 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	67.	67.	68.	64.*
	S.D.	3.5	3.0	5.0	3.5
	N	30	30	30	30
	28 TO 35				
	MEAN	66.	66.	67.	63.*
	S.D.	4.5	3.8	5.0	2.9
	N	30	30	30	30
	35 TO 42				
	MEAN	63.	64.	64.	61.*
	S.D.	3.2	3.0	4.2	2.4
	N	30	30	30	30
	42 TO 49				
	MEAN	61.	61.	62.	59.
	S.D.	4.1	3.3	4.8	3.3
	N	30	30	30	30
	49 TO 56				
	MEAN	60.	60.	60.	58.
	S.D.	6.2	3.7	4.4	3.2
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 23 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	56 TO 63				
	MEAN	58.	58.	58.	55.*
	S.D.	2.8	3.8	4.4	3.2
	N	30	30	30	30
	63 TO 70				
	MEAN	54.	55.	56.	54.
	S.D.	7.1	3.0	4.3	3.3
	N	30	30	30	30
	70 TO 84	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
	84 TO 91				
	MEAN	53.	52.	53.	51.*
	S.D.	2.5	3.1	3.7	2.6
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 23 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		M A L E			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91 TO 98	MEAN	52.	51.	51.	49.
	S.D.	4.1	3.7	3.7	3.1
	N	30	30	30	30
98 TO 105	MEAN	51.	52.	52.	49.
	S.D.	5.4	3.1	4.8	3.3
	N	30	30	30	30
105 TO 112	MEAN	53.	53.	53.	50.*
	S.D.	3.6	3.2	4.3	2.6
	N	30	30	30	30
112 TO 119	MEAN	51.	50.	50.	48.**
	S.D.	3.4	3.6	3.2	2.6
	N	30	30	30	30
119 TO 126	MEAN	46.	47.	46.	45.
	S.D.	3.9	6.6	3.6	4.1
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 23 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

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GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	43.	44.	45.	42.
S.D.	2.2	4.3	3.5	2.9
N	7	8	7	8

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TABLE 24 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	88.	91.	90.	92.
	S.D.	16.8	13.4	11.5	11.4
	N	30	30	30	30
1 TO 4	MEAN	95.	93.	92.	93.
	S.D.	7.3	6.5	5.0	7.7
	N	30	30	30	30
4 TO 7	MEAN	A	92.	91.	92.
	S.D.		4.5	4.7	7.7
	N		30	30	30
7 TO 14	MEAN	85.	88.	85.	85.
	S.D.	3.7	6.9	4.8	5.9
	N	30	30	30	30
14 TO 21	MEAN	86.	86.	85.	85.
	S.D.	4.4	6.0	6.1	6.5
	N	30	30	30	30

None significantly different from control group  
 A = TECHNICAL ERROR, FOOD CONSUMPTION NOT RECORDED

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TABLE 24 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	21 TO 28				
	MEAN	82.	82.	81.	81.
	S.D.	3.7	4.8	4.8	6.1
	N	30	30	30	30
	28 TO 35				
	MEAN	82.	80.	81.	80.
	S.D.	3.7	3.9	4.1	5.1
	N	30	30	30	30
	35 TO 42				
	MEAN	78.	77.	77.	76.
	S.D.	4.1	4.5	4.8	7.0
	N	30	30	30	30
	42 TO 49				
	MEAN	74.	73.	75.	74.
	S.D.	3.6	3.9	4.8	6.2
	N	30	30	30	30
	49 TO 56				
	MEAN	76.	73.	74.	74.
	S.D.	12.7	4.7	3.8	6.7
	N	30	30	30	30

None significantly different from control group

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TABLE 24 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 56 TO 63					
	MEAN	71.	71.	72.	70.
	S.D.	3.9	4.5	3.5	6.4
	N	30	30	30	30
63 TO 70					
	MEAN	69.	68.	70.	70.
	S.D.	5.0	4.6	4.8	5.2
	N	30	30	30	30
70 TO 84		FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
84 TO 91					
	MEAN	67.	54.	62.	B
	S.D.	4.8	0.0	2.1	
	N	4	1	2	

None significantly different from control group  
 B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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TABLE 24 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 91 TO 98	MEAN	61.	B	63.	B
	S.D.	2.6		0.0	
	N	4		1	
98 TO 105	MEAN	62.	60.	56.	57.
	S.D.	5.0	0.0	4.2	0.0
	N	7	1	2	1
105 TO 112	MEAN	64.	58.	59.	65.
	S.D.	6.1	0.0	3.1	7.1
	N	8	1	3	2
112 TO 119	MEAN	63.	51.	61.	66.
	S.D.	5.1	0.0	6.2	11.5
	N	8	1	3	3
119 TO 126	MEAN	70.	57.	65.	65.
	S.D.	9.0	0.0	5.6	3.6
	N	8	1	3	3

B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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SPONSOR:ACC

TABLE 24 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

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GROUP:	0 PPM	----- F E M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	63.	72.	66.	65.
S.D.	5.8	12.4	3.7	8.2
N	7	7	7	8

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(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY	0 TO 1					
	MEAN	1.5	2.0	2.4	1.7	
	S.D.	2.10	1.60	1.77	1.92	
	N	30	30	30	30	
	1 TO 4					
	MEAN	9.4	8.4	7.5**	8.5	
	S.D.	1.80	2.39	2.28	2.79	
	N	30	30	30	30	
	4 TO 7					
	MEAN	6.8	7.1	7.3	7.3	
	S.D.	2.60	2.75	2.32	3.28	
	N	16-A	30	30	30	
	7 TO 14					
	MEAN	17.0	16.6	16.0	18.1	
	S.D.	4.21	4.31	3.65	3.83	
	N	30	30	30	30	
	14 TO 21					
	MEAN	14.5	12.4	12.8	15.2	
	S.D.	3.48	6.35	3.87	5.11	
	N	30	30	30	30	

\*\* = Significantly different from the control group at 0.01 using Dunnett's test  
 A = TECHNICAL ERROR, FOOD CONSUMPTION ONLY RECORDED FOR 16 ANIMALS

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TABLE 25 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY	21 TO 28					
	MEAN	13.0	13.3	12.6	14.0	
	S.D.	4.78	4.33	4.67	4.98	
	N	30	30	30	30	
	28 TO 35					
	MEAN	10.5	8.8	10.1	10.1	
	S.D.	5.05	4.17	4.86	3.55	
	N	30	30	30	30	
	35 TO 42					
	MEAN	9.2	10.4	9.1	10.6	
	S.D.	4.03	4.62	3.92	4.23	
	N	30	30	30	30	
	42 TO 49					
	MEAN	8.7	6.8	9.6	9.5	
	S.D.	3.39	3.86	3.80	4.24	
	N	30	30	30	30	
	49 TO 56					
	MEAN	5.7	7.5	6.1	8.5	
	S.D.	5.97	3.26	3.52	3.80	
	N	30	30	30	30	

None significantly different from control group

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TABLE 25 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY	56 TO 63					
	MEAN	9.5	9.2	8.0	7.4	
	S.D.	3.58	3.01	4.42	4.42	
	N	30	30	30	30	
	63 TO 70					
	MEAN	-6.9	5.6	5.9	5.6	
	S.D.	60.35	7.29	3.30	3.72	
	N	30	30	30	30	
	70 TO 84	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD				
	84 TO 91					
	MEAN	5.4	5.1	2.9	5.0	
	S.D.	4.95	3.61	4.05	3.44	
	N	30	30	30	30	

None significantly different from control group

TABLE 25 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 91 TO 98	MEAN	2.2	-0.3	3.4	1.5	
	S.D.	3.92	5.41	4.38	4.98	
	N	30	30	30	30	
98 TO 105	MEAN	1.4	5.0	2.4	3.1	
	S.D.	7.32	3.37	4.20	5.08	
	N	30	30	30	30	
105 TO 112	MEAN	4.6	4.7	4.6	5.5	
	S.D.	6.39	3.22	5.94	3.37	
	N	30	30	30	30	
112 TO 119	MEAN	5.4	3.0	3.6	3.3	
	S.D.	4.45	2.93	4.53	4.33	
	N	30	30	30	30	
119 TO 126	MEAN	-1.6	0.9	0.1	1.6	
	S.D.	5.74	3.86	5.32	4.05	
	N	30	30	30	30	

None significantly different from control group

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SPONSOR:ACC

TABLE 25 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF FOOD EFFICIENCY

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(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	0.7	1.4	3.5	-2.9
S.D.	3.21	5.17	3.41	7.48
N	7	8	7	8

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TABLE 26 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	0 TO 1				
	MEAN	-0.6	-0.9	-0.3	-0.5
	S.D.	4.53	7.10	5.00	4.68
	N	30	30	30	30
1 TO 4	MEAN	8.5	8.6	8.7	8.5
	S.D.	3.16	3.77	3.78	2.96
	N	30	30	30	30
4 TO 7	MEAN	A	3.7	5.0	3.8
	S.D.		4.48	2.91	3.84
	N		30	30	30
7 TO 14	MEAN	15.6	15.1	13.5	15.1
	S.D.	4.05	3.89	4.24	3.92
	N	30	30	30	30
14 TO 21	MEAN	7.4	9.5	9.2	7.4
	S.D.	3.85	3.82	4.96	4.46
	N	30	30	30	30

None significantly different from control group  
 A = TECHNICAL ERROR, FOOD CONSUMPTION NOT RECORDED

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TABLE 26 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY	21 TO 28					
	MEAN	9.5	10.1	8.7	9.8	
	S.D.	2.93	4.50	4.18	3.49	
	N	30	30	30	30	
	28 TO 35					
	MEAN	5.5	3.9	4.9	7.2	
	S.D.	3.53	4.46	6.83	3.81	
	N	30	30	30	30	
	35 TO 42					
	MEAN	5.3	6.8	6.4	3.5	
	S.D.	3.71	4.02	6.40	5.92	
	N	30	30	30	30	
	42 TO 49					
	MEAN	8.2	6.5	6.9	7.1	
	S.D.	3.45	3.60	4.79	4.67	
	N	30	30	30	30	
	49 TO 56					
	MEAN	0.8	0.7	1.6	2.2	
	S.D.	4.55	4.72	4.61	5.35	
	N	30	30	30	30	

None significantly different from control group

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TABLE 26 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY	56 TO 63				
	MEAN	3.8	5.0	3.8	3.3
	S.D.	4.85	6.56	5.49	4.25
	N	30	30	30	30
	63 TO 70				
	MEAN	3.6	4.2	5.0	4.8
	S.D.	3.91	4.93	4.90	6.47
	N	30	30	30	30
	70 TO 84	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
	84 TO 91				
	MEAN	-0.1	37.3	10.3	B
	S.D.	3.70	0.00	16.76	
	N	4	1	2	

None significantly different from control group  
 B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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TABLE 26 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:		0 PPM	----- F E M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 91 TO 98					
	MEAN	-0.9	B	0.0	B
	S.D.	5.19		0.00	
	N	4		1	
98 TO 105					
	MEAN	0.3	1.4	0.9	6.7
	S.D.	8.68	0.00	5.52	0.00
	N	7	1	2	1
105 TO 112					
	MEAN	1.7	8.6	-3.5	-9.2
	S.D.	3.10	0.00	6.86	15.27
	N	8	1	3	2
112 TO 119					
	MEAN	3.2	6.3	6.1	2.5
	S.D.	10.29	0.00	1.88	8.12
	N	8	1	3	3
119 TO 126					
	MEAN	7.8	0.7	7.1	4.0
	S.D.	2.94	0.00	7.46	14.05
	N	8	1	3	3

B = REFER TO F0 GESTATION/LACTATION FOOD CONSUMPTION TABLES

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TABLE 26 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF FOOD EFFICIENCY

PAGE 5

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	0 PPM	----- F E M A L E ----- 500 PPM	1000 PPM	2500 PPM
DAY 126 TO 133				
MEAN	-2.1	5.9	1.2	3.4
S.D.	9.51	6.21	8.32	5.22
N	7	7	7	8

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TABLE 27 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 1

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	20.	20.	21.	18.		
	S.D./N	4.6/22	2.5/28	4.2/27	4.9/28		
DAY	4- 7 MEAN	23.	24.	23.	21.		
	S.D./N	2.7/22	2.9/28	5.2/27	4.1/28		
DAY	7- 11 MEAN	23.	23.	24.	22.		
	S.D./N	3.3/22	2.5/28	2.3/27	3.4/28		
DAY	11- 14 MEAN	24.	24.	24.	23.		
	S.D./N	2.1/22	2.8/28	3.6/27	2.5/28		
DAY	14- 20 MEAN	25.	25.	24.	24.		
	S.D./N	1.9/22	2.6/28	4.2/27	2.7/28		
DAY	0- 20 MEAN	23.	23.	23.	22.		
	S.D./N	2.0/22	2.1/28	2.4/27	2.3/28		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 28 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	70.	67.	69.	61.		
	S.D./N	15.0/22	8.5/28	13.5/27	15.1/28		
DAY	4- 7 MEAN	76.	78.	73.	69.		
	S.D./N	6.2/22	9.3/28	15.5/27	12.9/28		
DAY	7- 11 MEAN	73.	73.	73.	70.		
	S.D./N	8.7/22	7.1/28	7.1/27	12.0/28		
DAY	11- 14 MEAN	72.	72.	71.	70.		
	S.D./N	5.7/22	8.0/28	10.7/27	9.1/28		
DAY	14- 20 MEAN	67.	68.	64.	65.		
	S.D./N	4.3/22	6.7/28	10.3/27	6.5/28		
DAY	0- 20 MEAN	71.	71.	69.	67.*		
	S.D./N	4.1/22	5.9/28	5.2/27	5.6/28		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 29 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	14.4	12.6	9.0	7.7		
	S.D./N	16.62/22	15.77/28	70.67/27	60.04/28		
DAY	4- 7 MEAN	18.1	17.2	-23.2	-2.7		
	S.D./N	27.22/22	18.53/28	185.79/27	50.54/28		
DAY	7- 11 MEAN	16.3	14.7	18.2	23.5		
	S.D./N	12.31/22	7.60/28	14.58/27	18.72/28		
DAY	11- 14 MEAN	14.6	16.7	15.1	18.8		
	S.D./N	8.86/22	6.29/28	10.67/27	8.46/28		
DAY	14- 20 MEAN	45.4	43.6	45.0	45.9		
	S.D./N	9.62/22	9.58/28	12.27/27	12.30/28		
DAY	0- 20 MEAN	25.4	24.6	25.8	27.1		
	S.D./N	3.79/22	3.74/28	4.84/27	5.16/28		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 30 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	39.	36.	36.	37.		
	S.D./N	14.1/22	9.9/28	10.5/27	9.5/26		
DAY	4- 7 MEAN	38.	38.	35.	37.		
	S.D./N	8.2/22	7.5/28	6.3/26	5.8/26		
DAY	7- 14 MEAN	46.	43.	43.	44.		
	S.D./N	8.2/21	6.8/27	6.1/27	6.6/26		
DAY	14- 21 MEAN	60.	58.	58.	57.		
	S.D./N	7.7/22	7.6/26	6.4/27	5.9/25		
DAY	21- 28 MEAN	69.	65.	68.	71.		
	S.D./N	12.2/22	7.2/26	8.0/27	5.0/25		
DAY	1- 28 MEAN	54.	52.	52.	53.		
	S.D./N	6.5/22	4.7/26	4.4/27	2.9/25		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM
None significantly different from control group							

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TABLE 31 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING LACTATION [G/KG/DAY]

PAGE 1

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	126.	115.	117.	115.		
	S.D./N	49.8/22	31.1/28	32.3/27	29.0/26		
DAY	4- 7 MEAN	118.	118.	110.	111.		
	S.D./N	25.4/22	25.7/28	22.1/26	15.4/26		
DAY	7- 14 MEAN	139.	129.	129.	129.		
	S.D./N	29.9/21	19.9/27	19.3/27	22.8/26		
DAY	14- 21 MEAN	174.	169.	166.	160.		
	S.D./N	19.8/22	24.3/26	20.5/27	16.0/25		
DAY	21- 28 MEAN	213.	192.	205.	210.		
	S.D./N	43.1/22	25.7/26	29.3/27	18.2/25		
DAY	1- 28 MEAN	168.	158.	160.	158.		
	S.D./N	23.4/22	15.8/26	15.6/27	10.7/25		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group

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TABLE 32 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	14.1	10.8	13.8	11.2		
	S.D./N	11.68/22	10.03/28	8.49/27	10.72/26		
DAY	4- 7 MEAN	7.5	-0.1	6.3	10.5		
	S.D./N	11.31/22	21.93/28	7.70/26	7.45/26		
DAY	7- 14 MEAN	2.3	3.4	6.7	5.8		
	S.D./N	10.99/21	8.79/27	6.62/27	4.54/26		
DAY	14- 21 MEAN	4.0	5.1	2.7	1.3		
	S.D./N	9.16/22	8.09/26	6.10/27	4.87/25		
DAY	21- 28 MEAN	-11.3	-7.1**	-8.9	-8.8		
	S.D./N	5.33/22	5.51/26	4.05/27	3.65/25		
DAY	1- 28 MEAN	-0.1	1.3**	0.8	0.3		
	S.D./N	1.62/22	1.58/26	1.35/27	1.26/25		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 33 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF GESTATION LENGTHS [DAYS]

PAGE 1

DOSE GROUP :		1	2	3	4
NO. OF ANIMALS		22	28	25	26
GESTATION LENGTH (DAYS)	MEAN	22.0	21.9	21.9	21.8
	S.D.	0.31	0.45	0.33	0.63
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM		

None significantly different from control group

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09/25/2002

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TABLE 34 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY FO ISOBUTANOL IN RATS  
SUMMARY OF SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 1

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
LEFT TESTIS				
MEAN	88.8	95.3	94.2	94.2
S.D.	15.53	21.22	17.67	16.77
N	30	30	30	30
LEFT EPIDIDYMIS				
MEAN	476.2	471.3	476.7	525.9
S.D.	110.08	115.14	91.86	108.76
N	30	30	30	30

None significantly different from control group

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TABLE 35 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 1

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
LEFT TESTIS				
MEAN	14.5	15.6	15.4	15.4
S.D.	2.55	3.48	2.90	2.75
N	30	30	30	30

None significantly different from control group

$$\text{SPERM PRODUCTION RATE} = \frac{\text{NUMBER OF SPERM PER GRAM OF TISSUE}}{6.1 \text{ DAYS}}$$

6.1 DAYS = THE RATE OF TURNOVER OF THE GERMINAL EPITHELIUM

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TABLE 36 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 1

GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
MOTILE SPERM				
MEAN	83.0	78.3	84.7	84.7
S.D.	18.60	19.39	11.31	7.70
N	30	30	29	30
PROGRESSIVE MOTILE SPERM				
MEAN	70.9	65.5	74.0	71.9
S.D.	17.71	20.89	13.18	11.51
N	30	30	29	30

None significantly different from control group

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TABLE 37 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
NORMAL				
MEAN	97.9	98.2	97.5	95.9
S.D.	5.43	5.08	7.22	18.03
N	30	30	29	30
NORMALLY SHAPED HEAD SEPARATED FROM FLAGELLUM				
MEAN	1.3	1.0	1.1	0.5
S.D.	3.31	2.42	2.86	0.59
N	30	30	29	30
HEAD ABSENT WITH NORMAL FLAGELLUM				
MEAN	0.8	0.8	1.3	0.8
S.D.	2.18	2.72	4.41	2.72
N	30	30	29	30
HEAD ABSENT WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30
MISSHAPEN HEAD WITH NORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	2.8
S.D.	0.00	0.00	0.00	15.43
N	30	30	29	30
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30

Percentage of normal sperm not significantly different from control group

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TABLE 37 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 2

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30

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TABLE 38 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
NORMAL				
MEAN	195.8	196.5	195.1	191.7
S.D.	10.86	10.15	14.43	36.06
N	30	30	29	30
NORMALLY SHAPED HEAD SEPARATED FROM FLAGELLUM				
MEAN	2.6	1.9	2.3	1.0
S.D.	6.62	4.85	5.73	1.17
N	30	30	29	30
HEAD ABSENT WITH NORMAL FLAGELLUM				
MEAN	1.6	1.6	2.7	1.7
S.D.	4.35	5.43	8.82	5.45
N	30	30	29	30
HEAD ABSENT WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30
MISSHAPEN HEAD WITH NORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	5.6
S.D.	0.00	0.00	0.00	30.86
N	30	30	29	30
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30

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TABLE 38 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 2

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	30	30	29	30

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09/04/2002  
R:09/27/2002

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SPONSOR:ACC

TABLE 39 (F0 FEMALES - UNSCHEDULED DEATH)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

FOUND DEAD OR EUTHANIZED MORIBUND OR IN EXTREMIS

	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	0	1	0	0
ILEUM				
-CONTENTS, DARK RED	0	1	0	0
JEJUNUM				
-CONTENTS, DARK RED	0	1	0	0
PITUITARY				
-PALE	0	1	0	0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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SCHEDULED NECROPSY

GROUP	M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
ADRENAL GLANDS				
-AREA(S), WHITE	0	0	0	1
ILEUM				
-DIVERTICULUM	0	0	1	0
JEJUNUM				
-DIVERTICULUM	1	0	0	0
KIDNEYS				
-AREA(S), DEPRESSED	2	0	2	2
LYMPH NODE, MAND				
-DISCOLORATION, DARK RED	3	5	8	3
-ENLARGED	1	1	2	1
LUNGS				
-AREA(S), DARK RED	0	2	1	0
-AREA(S), WHITE	0	2	0	0
PITUITARY				
-PALE	0	1	0	1
SKIN				
-MATTING, RED	0	0	2	0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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TABLE 40 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

SCHEDULED NECROPSY

GROUP	M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
SKIN - CONTINUED				
-HAIR LOSS	0	0	1	1
SPLEEN				
-CYST(S)	0	1	0	0
RIGHT TESTIS				
-SMALL	0	1	1	0
-SOFT	1	1	1	0
LEFT TESTIS				
-SMALL	0	1	0	0
-SOFT	1	1	0	0
LEFT EPIDIDYMIS				
-SMALL	0	1	0	0
-SOFT	1	0	0	0
RIGHT EPIDIDYMIS				
-SMALL	0	1	0	0
-SOFT	1	0	0	0
TEETH				
-MISSING	2	1	1	0
-BROKEN	0	0	1	0
-MALALIGNED	1	0	0	0
1- 0 PPM				
2- 500 PPM				
3- 1000 PPM				
4- 2500 PPM				

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TABLE 40 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF MACROSCOPIC FINDINGS

PAGE 3

SCHEDULED NECROPSY

GROUP	M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
LYMPH NODE, MED -ENLARGED	1	0	1	0
LYMPH NODE, BRON -ENLARGED	1	1	0	1
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	21	19	16	20

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PGRSiv4.02  
09/04/2002

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 41 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

SCHEDULED NECROPSY

GROUP	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	29	30	30
LYMPH NODE, MED				
-ENLARGED	2	0	1	1
KIDNEYS				
-AREA(S), RAISED	0	1	0	1
-DILATED PELVIS	1	2	0	0
-AREA(S), WHITE	1	0	0	1
-AREA(S), DEPRESSED	0	0	0	2
LYMPH NODE, MAND				
-DISCOLORATION, DARK RED	6	3	8	8
-ENLARGED	0	1	2	0
LIVER				
-AREA(S), DARK RED	1	0	3	0
LUNGS				
-AREA(S), WHITE	0	0	4	1
-AREA(S), DARK RED	1	0	2	0
PITUITARY				
-ENLARGED	1	0	0	0
ADIPOSE TISSUE				
-DISCOLORATION, YELLOW	0	1	0	0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 41 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 2

SCHEDULED NECROPSY

GROUP	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	29	30	30
SKIN				
-MATTING, RED	0	1	1	1
-HAIR LOSS	2	0	0	0
-MASS	1	0	0	0
SPLEEN				
-CYST(S)	0	1	0	1
LYMPH NODE, BRON				
-ENLARGED	0	2	0	0
THYMUS				
-DISCOLORATION, DARK RED	0	0	1	0
EAR(S)				
-SWOLLEN	1	0	1	2
URINARY BLADDER				
-THICKENED	0	1	0	0
-CALCULUS(I)	0	1	0	0
UTERUS				
-CONTENTS, GREEN	0	0	1	0
-DISTENDED	1	0	0	0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 41 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 3

SCHEDULED NECROPSY

GROUP	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	29	30	30
UTERUS - CONTINUED				
-CONTENTS, CLEAR FLUID	0	0	1	0
VAGINA				
-NODULE(S)	0	0	1	0
TEETH				
-FRACTURE	0	0	1	0
-MALALIGNED	0	0	0	2
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	17	20	13	17

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PGRSiv4.02  
 09/04/2002

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 42 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF IMPLANTATION SITES

PAGE 1

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
IMPLANTATION SITES				
MEAN	15.1	15.0	15.6	15.5
S.D.	3.08	3.52	2.24	2.91
N	22	29	27	27
NUMBER BORN				
MEAN	13.9	14.0	14.9	14.7
S.D.	3.29	3.31	2.55	2.66
N	22	29	27	27
UNACCOUNTED SITES				
MEAN	1.2	0.9	0.7	0.8
S.D.	1.68	1.10	1.02	0.83
N	22	28-A	27	27
-----				

None significantly different from control group

A = FEMALE NO. 74805 DELIVERED 12 PUPS, BUT WAS EUTHANIZED IN EXTREMIS WITH 4 PUPS IN UTERO; NOT INCLUDED IN CALCULATION OF MEAN

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

PISSUv5.01  
09/25/2002  
R:12/09/2002

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GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	2.11	2.11	2.12	2.13	
	S.D.	0.109	0.091	0.078	0.114	
	N	30	30	30	30	
LIVER (G)						
	MEAN	17.35	17.48	17.50	17.48	
	S.D.	2.430	2.236	2.055	2.798	
	N	30	30	30	30	
KIDNEYS (G)						
	MEAN	3.60	3.63	3.65	3.75	
	S.D.	0.389	0.408	0.328	0.555	
	N	30	30	30	30	
SPLEEN (G)						
	MEAN	0.78	0.76	0.74	0.77	
	S.D.	0.136	0.106	0.099	0.103	
	N	30	30	30	30	
SEM VES/CG/FLUID (G)						
	MEAN	2.30	2.21	2.35	2.17	
	S.D.	0.364	0.316	0.301	0.361	
	N	30	30	30	30	

None significantly different from control group

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
PROSTATE (G)				
MEAN	1.12	1.26	1.34**	1.24
S.D.	0.256	0.199	0.240	0.267
N	30	30	30	30
RIGHT TESTIS (G)				
MEAN	1.82	1.73	1.74	1.85
S.D.	0.159	0.388	0.249	0.125
N	30	30	30	30
LEFT TESTIS (G)				
MEAN	1.83	1.79	1.81	1.85
S.D.	0.165	0.207	0.102	0.137
N	30	30	30	30
RIGHT EPIDIDYMIS (G)				
MEAN	0.74	0.72	0.72	0.72
S.D.	0.070	0.078	0.085	0.078
N	30	30	30	30
LEFT EPIDIDYMIS (G)				
MEAN	0.74	0.71	0.72	0.72
S.D.	0.071	0.083	0.067	0.060
N	30	30	30	30

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
RIGHT CAUDA EPID (G)				
MEAN	0.3055	0.3027	0.2963	0.2996
S.D.	0.04601	0.04112	0.05169	0.03709
N	30	30	30	30
LEFT CAUDA EPID (G)				
MEAN	0.3306	0.3260	0.3168	0.3192
S.D.	0.04346	0.04731	0.04664	0.03987
N	30	30	30	30
THYMUS (G)				
MEAN	0.2124	0.2204	0.2152	0.2110
S.D.	0.06601	0.06036	0.04974	0.05936
N	30	30	30	30
ADRENAL GLANDS (G)				
MEAN	0.0614	0.0622	0.0648	0.0643
S.D.	0.01174	0.00928	0.00844	0.01076
N	30	30	30	30
PITUITARY (G)				
MEAN	0.0161	0.0154	0.0150	0.0148
S.D.	0.00240	0.00246	0.00266	0.00255
N	30	30	30	30

None significantly different from control group

TABLE 44 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	1.98	1.99		2.00	2.02
	S.D.	0.069	0.075		0.068	0.077
	N	30	29		30	30
LIVER (G)						
	MEAN	13.42	13.55		13.18	12.90
	S.D.	1.974	1.645		1.691	1.301
	N	30	29		30	30
KIDNEYS (G)						
	MEAN	2.25	2.30		2.23	2.29
	S.D.	0.215	0.299		0.185	0.215
	N	30	29		30	30
SPLEEN (G)						
	MEAN	0.61	0.63		0.64	0.64
	S.D.	0.102	0.094		0.094	0.110
	N	30	29		30	29
UTERUS/CX/OD (G)						
	MEAN	0.81	0.73		0.84	0.73
	S.D.	0.253	0.182		0.287	0.184
	N	30	29		30	30

None significantly different from control group

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----- F E M A L E -----					
GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM	
THYMUS (G)					
MEAN	0.2574	0.2988	0.2836	0.2778	
S.D.	0.05556	0.08174	0.08141	0.07585	
N	30	29	30	30	
OVARIES (G)					
MEAN	0.1085	0.1160	0.1160	0.1221	
S.D.	0.02558	0.01477	0.01851	0.01789	
N	30	29	30	30	
ADRENAL GLANDS (G)					
MEAN	0.0778	0.0808	0.0819	0.0814	
S.D.	0.01008	0.01062	0.01204	0.01265	
N	30	29	30	30	
PITUITARY (G)					
MEAN	0.0219	0.0184*	0.0197	0.0192	
S.D.	0.00730	0.00297	0.00372	0.00385	
N	30	29	30	30	

\* = Significantly different from the control group at 0.05 using Dunnett's test

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
-----						
FINAL BODY WT (G)						
	MEAN	534.	531.		526.	538.
	S.D.	53.9	49.5		44.7	52.6
	N	30	30		30	30
BRAIN						
	MEAN	0.398	0.400		0.406	0.398
	S.D.	0.0339	0.0367		0.0315	0.0332
	N	30	30		30	30
LIVER						
	MEAN	3.242	3.288		3.322	3.241
	S.D.	0.2428	0.2327		0.2225	0.3159
	N	30	30		30	30
KIDNEYS						
	MEAN	0.676	0.686		0.695	0.696
	S.D.	0.0415	0.0691		0.0587	0.0663
	N	30	30		30	30
SPLEEN						
	MEAN	0.147	0.143		0.142	0.145
	S.D.	0.0215	0.0168		0.0172	0.0199
	N	30	30		30	30

-----  
 None significantly different from control group

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
SEM VES/CG/FLUID				
MEAN	0.432	0.421	0.449	0.407
S.D.	0.0577	0.0768	0.0648	0.0726
N	30	30	30	30
PROSTATE				
MEAN	0.209	0.238*	0.257**	0.232
S.D.	0.0443	0.0389	0.0500	0.0464
N	30	30	30	30
RIGHT TESTIS				
MEAN	0.345	0.327	0.334	0.346
S.D.	0.0471	0.0738	0.0538	0.0303
N	30	30	30	30
LEFT TESTIS				
MEAN	0.347	0.339	0.346	0.347
S.D.	0.0483	0.0433	0.0263	0.0332
N	30	30	30	30
RIGHT EPIDIDYMIS				
MEAN	0.139	0.136	0.137	0.134
S.D.	0.0167	0.0168	0.0192	0.0135
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
LEFT EPIDIDYMIS				
MEAN	0.140	0.135	0.137	0.134
S.D.	0.0185	0.0184	0.0153	0.0118
N	30	30	30	30
RIGHT CAUDA EPID				
MEAN	0.058	0.057	0.057	0.056
S.D.	0.0091	0.0089	0.0103	0.0071
N	30	30	30	30
LEFT CAUDA EPID				
MEAN	0.063	0.062	0.061	0.060
S.D.	0.0113	0.0104	0.0099	0.0081
N	30	30	30	30
THYMUS				
MEAN	0.040	0.042	0.041	0.039
S.D.	0.0116	0.0109	0.0082	0.0106
N	30	30	30	30
ADRENAL GLANDS				
MEAN	0.012	0.012	0.012	0.012
S.D.	0.0022	0.0020	0.0015	0.0023
N	30	30	30	30

None significantly different from control group

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 45 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

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GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
PITUITARY				
MEAN	0.003	0.003	0.003	0.003
S.D.	0.0005	0.0005	0.0006	0.0005
N	30	30	30	30

---

None significantly different from control group

POFBSTv5.02  
09/04/2002  
R:12/09/2002

TABLE 46 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
FINAL BODY WT (G)	MEAN	321.	321.		322.	320.
	S.D.	22.7	21.3		29.2	21.1
	N	30	29		30	30
BRAIN	MEAN	0.620	0.624		0.628	0.633
	S.D.	0.0425	0.0457		0.0576	0.0457
	N	30	29		30	30
LIVER	MEAN	4.176	4.222		4.104	4.032
	S.D.	0.4927	0.4502		0.4025	0.2927
	N	30	29		30	30
KIDNEYS	MEAN	0.701	0.720		0.698	0.715
	S.D.	0.0629	0.0951		0.0577	0.0582
	N	30	29		30	30
SPLEEN	MEAN	0.192	0.196		0.199	0.201
	S.D.	0.0289	0.0266		0.0286	0.0324
	N	30	29		30	29

None significantly different from control group

TABLE 46 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

----- F E M A L E -----					
GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM	
UTERUS/CX/OD					
MEAN	0.252	0.228	0.264	0.228	
S.D.	0.0796	0.0546	0.0940	0.0591	
N	30	29	30	30	
THYMUS					
MEAN	0.081	0.093	0.088	0.087	
S.D.	0.0194	0.0262	0.0229	0.0241	
N	30	29	30	30	
OVARIES					
MEAN	0.034	0.036	0.037	0.038	
S.D.	0.0083	0.0049	0.0073	0.0052	
N	30	29	30	30	
ADRENAL GLANDS					
MEAN	0.024	0.025	0.026	0.026	
S.D.	0.0035	0.0037	0.0040	0.0039	
N	30	29	30	30	
PITUITARY					
MEAN	0.007	0.006	0.006	0.006	
S.D.	0.0021	0.0009	0.0013	0.0013	
N	30	29	30	30	

None significantly different from control group

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TABLE 47 (F0 FEMALES - UNSCHEDULED DEATH)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	0	1	0	0
ADRENAL CORTEX				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
ADRENAL MEDULLA				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
BRAIN				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
KIDNEYS				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	0	0	0
-CAST, GRANULAR	0	1	0	0
MILD	NONE	1	NONE	NONE
-NECROSIS, TUBULAR	0	1	0	0
SEVERE	NONE	1	NONE	NONE
LIVER				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	0	0	0
-NECROSIS, HEPATOCELLULAR, CENTRILOBULAR	0	1	0	0
MODERATE	NONE	1	NONE	NONE

-----  
 1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 47 (F0 FEMALES - UNSCHEDULED DEATH)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 2

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	0	1	0	0
OVIDUCTS				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
OVARIES				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	0	0	0
-CYST	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
PITUITARY				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
SPLEEN				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	0	0	0
-DEPLETION, LYMPHOID	0	1	0	0
MODERATE	NONE	1	NONE	NONE
THYMUS				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	0	0	0
-NECROSIS, LYMPHOID	0	1	0	0
MODERATE	NONE	1	NONE	NONE
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 47 (F0 FEMALES - UNSCHEDULED DEATH)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 3

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	0	1	0	0
UTERUS				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
VAGINA				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
CERVIX				
TOTAL NUMBER EXAMINED	0	1	0	0
EXAMINED, UNREMARKABLE	0	1	0	0
CAUSE OF DEATH				
TOTAL NUMBER EXAMINED	NA	1	NA	NA
EXAMINED, UNREMARKABLE	NA	0	NA	NA
-RENAL NECROSIS	NA	1	NA	NA
PRESENT	NA	1	NA	NA

-----  
 1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PHSI2v4.17  
 12/09/2002

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 1

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
ADRENAL CORTEX				
TOTAL NUMBER EXAMINED	19	2	2	13
EXAMINED, UNREMARKABLE	15	2	2	11
-VACUOLATION, CYTOPLASMIC	4	0	0	1
MINIMAL	4	NONE	NONE	1
-HYPERTROPHY	0	0	0	2
MINIMAL	NONE	NONE	NONE	2
ADRENAL MEDULLA				
TOTAL NUMBER EXAMINED	19	2	2	13
EXAMINED, UNREMARKABLE	19	2	2	13
BRAIN				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	18	2	2	12
-FIBROSIS	1	0	0	0
MILD	1	NONE	NONE	NONE
ILEUM				
TOTAL NUMBER EXAMINED	NA	NA	1	NA
EXAMINED, UNREMARKABLE	NA	NA	0	NA
-DIVERTICULUM	NA	NA	1	NA
PRESENT	NA	NA	1	NA
-HYPERPLASIA, LYMPHOID	NA	NA	1	NA
MILD	NA	NA	1	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 2

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
JEJUNUM				
TOTAL NUMBER EXAMINED	1	NA	NA	NA
EXAMINED, UNREMARKABLE	0	NA	NA	NA
-DIVERTICULUM	1	NA	NA	NA
PRESENT	1	NA	NA	NA
KIDNEYS				
TOTAL NUMBER EXAMINED	19	2	4	13
EXAMINED, UNREMARKABLE	3	0	0	1
-VACUOLATION, CYTOPLASMIC	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
-MINERALIZATION, TUBULAR	6	0	0	1
MINIMAL	6	NONE	NONE	1
-INFLAMMATION, SUBACUTE	13	2	4	11
MINIMAL	12	2	4	10
MILD	1	NONE	NONE	1
-BASOPHILIC TUBULES	7	1	2	10
MINIMAL	5	1	2	9
MILD	2	NONE	NONE	1
-DILATATION, TUBULAR	3	0	1	2
MINIMAL	2	NONE	1	2
MILD	1	NONE	NONE	NONE
-MINERALIZATION, PELVIC	1	0	0	0
MINIMAL	1	NONE	NONE	NONE

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
KIDNEYS - CONTINUED				
-HYPERPLASIA, TRANSITIONAL CELL	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
-FIBROSIS, INTERSTITIAL	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
LYMPH NODE, MAND				
TOTAL NUMBER EXAMINED	4	5	9	4
EXAMINED, UNREMARKABLE	0	0	0	0
-HEMORRHAGE	4	5	9	4
MINIMAL	NA	NA	NA	2
MILD	2	1	4	1
MODERATE	2	4	4	1
SEVERE	NA	NA	1	NA
-HYPERPLASIA, LYMPHOID	1	4	8	4
MINIMAL	NA	4	8	4
MILD	1	NA	NA	NA
-PLASMACYTOSIS	0	0	2	0
MILD	NA	NA	2	NA
LIVER				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	4	0	0	1
-VACUOLATION, CYTOPLASMIC	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 4

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
LIVER - CONTINUED				
-INFILTRATE, MONONUCLEAR	14	2	2	11
MINIMAL	14	2	2	11
LUNGS				
TOTAL NUMBER EXAMINED	NA	4	1	NA
EXAMINED, UNREMARKABLE	NA	0	0	NA
-INFILTRATE, MONONUCLEAR, PERIVASCULAR	NA	4	1	NA
MINIMAL	NA	3	NA	NA
MILD	NA	1	1	NA
-MACROPHAGES, ALVEOLAR	NA	3	1	NA
MINIMAL	NA	3	1	NA
-INFILTRATE, MONONUCLEAR, SUBPLEURAL	NA	3	0	NA
MINIMAL	NA	3	NA	NA
-HEMORRHAGE	NA	1	1	NA
MILD	NA	1	1	NA
PITUITARY				
TOTAL NUMBER EXAMINED	19	3	2	13
EXAMINED, UNREMARKABLE	18	3	2	12
-CYST, PARS NERVOSA	1	0	0	0
MILD	1	NONE	NONE	NONE
-CYST, PARS INTERMEDIA	0	0	0	1
MINIMAL	NONE	NONE	NONE	1

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 5

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
PITUITARY - CONTINUED				
-HYPERTROPHY, PARS DISTALIS	0	0	0	1
MILD	NONE	NONE	NONE	1
PROSTATE				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	9	1	1	9
-INFILTRATE, LYMPHOCYTE	6	0	0	3
MINIMAL	4	NONE	NONE	3
MILD	2	NONE	NONE	NONE
-INFLAMMATION, SUBACUTE	4	1	1	0
MINIMAL	3	1	NONE	NONE
MILD	1	NONE	1	NONE
-CELLULAR DEBRIS	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
SKIN				
TOTAL NUMBER EXAMINED	NA	NA	1	1
EXAMINED, UNREMARKABLE	NA	NA	0	1
-ATROPHY, HAIR FOLLICLE	NA	NA	1	0
MILD	NA	NA	1	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 6

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
SPLEEN				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	17	1	2	12
-CYST	1	1	0	0
MINIMAL	1	NONE	NONE	NONE
MILD	NONE	1	NONE	NONE
-PIGMENT, BROWN	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
SEMINAL VESICLES				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	19	2	2	12
THYMUS				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	6	0	0	2
-HEMORRHAGE	13	2	2	10
MINIMAL	11	2	2	8
MILD	2	NONE	NONE	2
RIGHT TESTIS				
TOTAL NUMBER EXAMINED	19	3	3	12
EXAMINED, UNREMARKABLE	18	2	2	12
-VACUOLATION, SEMINIFEROUS EPITHELIUM	1	0	0	0
MILD	1	NONE	NONE	NONE
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 7

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
RIGHT TESTIS - CONTINUED				
-GIANT CELL	1	1	0	0
MINIMAL	NONE	1	NONE	NONE
MILD	1	NONE	NONE	NONE
-DEGENERATION, SEMINIFEROUS TUBULES	0	0	1	0
SEVERE	NONE	NONE	1	NONE
RIGHT EPIDIDYMIS				
TOTAL NUMBER EXAMINED	19	3	2	12
EXAMINED, UNREMARKABLE	16	2	2	11
-CELLULAR DEBRIS	2	1	0	0
MINIMAL	1	1	NONE	NONE
MILD	1	NONE	NONE	NONE
-INFILTRATE, LYMPHOCYTE	2	0	0	1
MINIMAL	2	NONE	NONE	1
COAGULATING GL				
TOTAL NUMBER EXAMINED	19	2	2	12
EXAMINED, UNREMARKABLE	19	2	2	12
LYMPH NODE, MED				
TOTAL NUMBER EXAMINED	1	NA	1	NA
EXAMINED, UNREMARKABLE	0	NA	0	NA
-HYPERPLASIA, LYMPHOID	1	NA	1	NA
MINIMAL	1	NA	1	NA
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
NA = NOT APPLICABLE				

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 48 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF MICROSCOPIC FINDINGS

PAGE 8

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	20	11	13	20
LYMPH NODE, BRON				
TOTAL NUMBER EXAMINED	1	1	NA	1
EXAMINED, UNREMARKABLE	0	0	NA	0
-HYPERPLASIA, LYMPHOID	1	1	NA	1
MINIMAL	NA	1	NA	1
MILD	1	NA	NA	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
NA = NOT APPLICABLE

PHSI2v4.22  
11/13/2003

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 1

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
ADRENAL CORTEX				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	17	1	3	13
-DEGENERATION, CYSTIC	1	0	0	0
MILD	1	NONE	NONE	NONE
ADRENAL MEDULLA				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	18	1	3	13
BRAIN				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	17	1	3	13
-HYDROCEPHALUS	1	0	0	0
MODERATE	1	NONE	NONE	NONE
LYMPH NODE, MED				
TOTAL NUMBER EXAMINED	2	NA	1	1
EXAMINED, UNREMARKABLE	0	NA	0	0
-HYPERPLASIA, LYMPHOID	2	NA	1	1
MINIMAL	2	NA	1	1

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

----- FEMALE -----

	GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP		30	30	30	30
NUMBER OF ANIMALS EXAMINED		23	9	17	16
KIDNEYS					
TOTAL NUMBER EXAMINED		19	4	3	15
EXAMINED, UNREMARKABLE		4	0	2	3
-BASOPHILIC TUBULES		6	2	0	4
MINIMAL		6	1	NONE	4
MILD		NONE	1	NONE	NONE
-INFLAMMATION, SUBACUTE		10	2	1	7
MINIMAL		8	1	1	5
MILD		1	NONE	NONE	2
MODERATE		1	NONE	NONE	NONE
SEVERE		NONE	1	NONE	NONE
-HYDRONEPHROSIS		1	3	0	0
MILD		1	3	NONE	NONE
-DILATATION, TUBULAR		2	1	0	2
MINIMAL		1	NONE	NONE	2
MILD		NONE	1	NONE	NONE
MODERATE		1	NONE	NONE	NONE
-MINERALIZATION, TUBULAR		4	0	1	2
MINIMAL		4	NONE	1	2
-MINERALIZATION, PELVIC		0	1	0	2
MINIMAL		NONE	NONE	NONE	2
MILD		NONE	1	NONE	NONE
-FIBROSIS, CORTICAL		1	1	0	1
MINIMAL		NONE	1	NONE	1
MILD		1	NONE	NONE	NONE

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
KIDNEYS - CONTINUED				
-INFLAMMATION, SUPPURATIVE	0	0	0	1
MILD	NONE	NONE	NONE	1
-HYPERPLASIA, TRANSITIONAL CELL	2	1	0	3
MINIMAL	1	NONE	NONE	3
MILD	1	1	NONE	NONE
-INFLAMMATION, PYOGRANULOMATOUS	1	1	0	1
MODERATE	1	1	NONE	1
-FIBROSIS	0	0	0	1
MILD	NONE	NONE	NONE	1
-HYPERPLASIA, TUBULAR	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
LYMPH NODE, MAND				
TOTAL NUMBER EXAMINED	6	4	8	8
EXAMINED, UNREMARKABLE	0	0	0	0
-HEMORRHAGE	6	4	8	8
MINIMAL	NA	1	1	NA
MILD	NA	2	NA	7
MODERATE	6	1	7	1
-HYPERPLASIA, LYMPHOID	6	3	7	8
MINIMAL	6	3	7	8
-PLASMACYTOSIS	1	1	3	1
MINIMAL	NA	NA	2	NA
MILD	1	1	1	1
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
NA = NOT APPLICABLE				

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TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
LIVER				
TOTAL NUMBER EXAMINED	19	1	6	13
EXAMINED, UNREMARKABLE	8	1	3	3
-INFILTRATE, MONONUCLEAR	11	0	3	10
MINIMAL	11	NONE	3	10
-PERIARTERITIS	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
-VACUOLATION, CYTOPLASMIC	0	0	0	1
MINIMAL	NONE	NONE	NONE	1
LUNGS				
TOTAL NUMBER EXAMINED	1	NA	6	1
EXAMINED, UNREMARKABLE	0	NA	0	0
-INFILTRATE, MONONUCLEAR, PERIVASCULAR	1	NA	6	1
MINIMAL	NA	NA	6	1
MILD	1	NA	NA	NA
-MACROPHAGES, ALVEOLAR	1	NA	2	1
MINIMAL	1	NA	2	1
-INFILTRATE, MONONUCLEAR, SUBPLEURAL	0	NA	1	0
MINIMAL	NA	NA	1	NA
-HEMORRHAGE	0	NA	2	0
MINIMAL	NA	NA	1	NA
MILD	NA	NA	1	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
MAMMARY GLAND				
TOTAL NUMBER EXAMINED	1	NA	NA	NA
EXAMINED, UNREMARKABLE	0	NA	NA	NA
-#M ADENOCARCINOMA	1	NA	NA	NA
PRESENT	1	NA	NA	NA
OVIDUCTS				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	18	1	3	13
OVARIES				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	8	1	2	10
-CYST	5	0	1	2
MINIMAL	3	NONE	1	1
MILD	2	NONE	NONE	1
-MINERALIZATION	1	0	0	1
MINIMAL	1	NONE	NONE	1
-DECREASED CORPORA LUTEA	4	0	1	1
SEVERE	4	NONE	1	1
PITUITARY				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	17	1	3	12
-CYST, PARS INTERMEDIA	0	0	0	1
MINIMAL	NONE	NONE	NONE	1

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 # = NEOPLASM, M = MALIGNANT

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 6

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
PITUITARY - CONTINUED				
-HYPERPLASIA, PARS DISTALIS	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
ADIPOSE TISSUE				
TOTAL NUMBER EXAMINED	NA	1	NA	NA
EXAMINED, UNREMARKABLE	NA	0	NA	NA
-NECROSIS	NA	1	NA	NA
MILD	NA	1	NA	NA
SKIN				
TOTAL NUMBER EXAMINED	2	NA	1	NA
EXAMINED, UNREMARKABLE	2	NA	0	NA
NOT EXAMINED	1	NA	0	NA
-CYST, KERATIN	0	NA	1	NA
MILD	NA	NA	1	NA
SPLEEN				
TOTAL NUMBER EXAMINED	18	2	3	13
EXAMINED, UNREMARKABLE	18	1	3	13
-CYST	0	1	0	0
MILD	NONE	1	NONE	NONE

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 7

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
LYMPH NODE, BRON				
TOTAL NUMBER EXAMINED	NA	2	NA	NA
EXAMINED, UNREMARKABLE	NA	1	NA	NA
-HYPERPLASIA, LYMPHOID	NA	1	NA	NA
MINIMAL	NA	1	NA	NA
-PLASMACYTOSIS	NA	1	NA	NA
MINIMAL	NA	1	NA	NA
THYMUS				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	5	0	1	3
-HEMORRHAGE	13	1	2	10
MINIMAL	11	1	1	9
MILD	2	NONE	1	1
EAR(S)				
TOTAL NUMBER EXAMINED	1	NA	1	2
EXAMINED, UNREMARKABLE	0	NA	0	0
-CHONDROPATHY, AURICULAR	1	NA	1	2
MILD	NA	NA	1	NA
MODERATE	1	NA	NA	2

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 8

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	23	9	17	16
URINARY BLADDER				
TOTAL NUMBER EXAMINED	NA	1	NA	NA
EXAMINED, UNREMARKABLE	NA	0	NA	NA
-HYPERPLASIA, TRANSITIONAL CELL	NA	1	NA	NA
MODERATE	NA	1	NA	NA
UTERUS				
TOTAL NUMBER EXAMINED	18	1	3	13
EXAMINED, UNREMARKABLE	11	0	1	11
-DILATATION, LUMEN	5	1	0	1
MILD	4	1	NONE	1
SEVERE	1	NONE	NONE	NONE
-IMPLANTATION SITE	2	0	0	2
PRESENT	2	NONE	NONE	2
-INFLAMMATION, SUBACUTE	0	0	1	0
MINIMAL	NONE	NONE	1	NONE
-METAPLASIA, SQUAMOUS	0	0	1	0
MILD	NONE	NONE	1	NONE
VAGINA				
TOTAL NUMBER EXAMINED	18	1	4	13
EXAMINED, UNREMARKABLE	18	1	4	13

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 49 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF MICROSCOPIC FINDINGS

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----- FEMALE -----

	GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP		30	30	30	30
NUMBER OF ANIMALS EXAMINED		23	9	17	16
CERVIX					
TOTAL NUMBER EXAMINED		18	1	3	13
EXAMINED, UNREMARKABLE		18	1	3	13

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PHSI2v4.17  
07/08/2003

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 50 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PND 0 LITTER DATA

PAGE 1

GROUP :	1	2	3	4
-----				
NUMBER BORN				
MEAN	13.9	14.0	14.9	14.7
S.D.	3.29	3.31	2.55	2.66
N	22	29	27	27
SEX AT BIRTH (% MALES PER LITTER)				
MEAN	49.6	45.4	46.3	53.9
S.D.	11.16	11.87	13.71	11.15
N	22	29	27	27
LIVE LITTER SIZE (PND 0)				
MEAN	13.6	13.9	14.4	14.4
S.D.	3.28	3.27	2.83	2.60
N	22	29	27	27
-----				

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 SEX COMPARED USING KRUSKAL-WALLIS, NUMBER BORN, AND LIVE LITTER SIZE COMPARED USING DUNNETT'S

-----  
 None significantly different from control group

PPVIASv5.01  
 12/09/2002

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GROUP :	1	2	3	4
-----				
PND 0 (RELATIVE TO NUMBER BORN)				
MEAN	97.8	99.3	97.2	98.1
S.D.	3.85	2.01	7.10	4.20
N	22	29	27	27
PND 0 TO PND 1				
MEAN	100.0	97.5++	98.2+	97.1
S.D.	0.00	3.99	3.74	10.49
N	22	28	27	27
PND 1 TO PND 4 (PRE-SELECTION)				
MEAN	97.7	98.1	98.4	96.5
S.D.	6.83	4.55	3.53	9.02
N	22	28	27	27
PND 4 (POST-SELECTION) TO PND 7				
MEAN	100.0	97.8+	98.1	100.0
S.D.	0.00	4.88	7.52	0.00
N	22	28	27	26
PND 7 TO PND 14				
MEAN	100.0	91.5	99.3	98.6
S.D.	0.00	26.14	3.85	5.39
N	22	28	27	26
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
-----				

+ = Significantly different from the control group at 0.05  
 ++ = Significantly different from the control group at 0.01

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GROUP :	1	2	3	4
-----				
PND 14 TO PND 21				
MEAN	100.0	99.5	100.0	95.6
S.D.	0.00	2.80	0.00	19.70
N	22	26	27	26
PND 21 TO PND 28				
MEAN	99.4	100.0	99.5	100.0
S.D.	2.67	0.00	2.41	0.00
N	22	26	27	25
BIRTH TO PND 4 (PRE-SELECTION)				
MEAN	95.5	95.0	93.9	92.5
S.D.	7.13	7.14	9.05	15.10
N	22	29	27	27
PND 4 (POST-SELECTION) TO PND 28				
MEAN	99.4	89.3+	97.2	95.2
S.D.	2.67	26.07	10.01	20.02
N	22	28	27	26
-----				

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 STATISTICS PERFORMED USING KRUSKAL-WALLIS

+ = Significantly different from the control group at 0.05

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PRE-WEANING  
 TOTAL NUMBER OF FINDINGS/NUMBER OF PUPS WITH FINDING

FINDING	GROUP :	1	2	3	4
NORMAL					
NO REMARKABLE OBSERVATIONS		1319/297	1626/379	1693/382	1621/372
DISPOSITION					
FOUND DEAD		13/ 13	22/ 22	21/ 21	30/ 30
SCHEDULED EUTHANASIA (PND 28)		86/ 86	106/106	102/102	95/ 95
CULLED ON SCHEDULED DAY (PND 4)		121/121	155/155	161/161	157/157
MISSING		3/ 3	19/ 19	9/ 9	11/ 11
SENT TO NECROPSY DUE TO DEATH OF DAM		0/ 0	12/ 12	0/ 0	0/ 0
BODY/INTEGUMENT					
TAIL MISSING		7/ 1	0/ 0	0/ 0	14/ 2
SMALL IN SIZE		4/ 3	4/ 1	6/ 6	5/ 5
SUBCUTANEOUS HEMORRHAGE(S)		1/ 1	2/ 2	2/ 2	2/ 2
TAIL BLACK IN COLOR		1/ 1	0/ 0	0/ 0	0/ 0
FILAMENTOUS TAIL		0/ 0	0/ 0	3/ 1	0/ 0
LACERATION(S)		1/ 1	0/ 0	0/ 0	2/ 1
UMBILICAL HERNIA		2/ 2	1/ 1	0/ 0	0/ 0
SCABBING		0/ 0	0/ 0	1/ 1	0/ 0
UNEVEN HAIR GROWTH		3/ 2	12/ 12	1/ 1	0/ 0
CARDIO-PULMONARY					
LABORED RESPIRATION		0/ 0	0/ 0	0/ 0	3/ 3
EYES/EARS/NOSE					
DRIED RED MATERIAL AROUND LEFT EYE		3/ 3	0/ 0	0/ 0	0/ 0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM		

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SPONSOR:ACC

TABLE 52 (F1 - PRE-WEANING)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF PUP CLINICAL OBSERVATIONS

PAGE 2

PRE-WEANING  
TOTAL NUMBER OF FINDINGS/NUMBER OF PUPS WITH FINDING

FINDING	GROUP :	1	2	3	4
EYES/EARS/NOSE					
DRIED RED MATERIAL AROUND NOSE		1/ 1	0/ 0	0/ 0	0/ 0
APPARENT OPACITY RIGHT EYE		0/ 0	1/ 1	0/ 0	0/ 0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PPOBSiv4.03  
01/03/2003

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TABLE 53 (F1 - POST-WEANING)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PUP CLINICAL OBSERVATIONS

PAGE 1

POST-WEANING  
 TOTAL NUMBER OF FINDINGS/NUMBER OF PUPS WITH FINDING

FINDING	GROUP :	1	2	3	4		
-----							
NORMAL							
NO REMARKABLE OBSERVATIONS		183/ 83	203/ 90	243/108	232/102		
DISPOSITION							
FOUND DEAD		0/ 0	1/ 1	0/ 0	1/ 1		
SCHEDULED EUTHANASIA (PND 34)		6/ 6	0/ 0	4/ 4	0/ 0		
SCHEDULED EUTHANASIA (PND 36)		2/ 2	0/ 0	0/ 0	0/ 0		
SCHEDULED EUTHANASIA (PND 37)		15/ 15	30/ 30	44/ 44	42/ 42		
BODY/INTEGUMENT							
TAIL MISSING		0/ 0	0/ 0	0/ 0	3/ 1		
SMALL IN SIZE		0/ 0	1/ 1	0/ 0	0/ 0		
DRIED BROWN MATTING		0/ 0	0/ 0	1/ 1	0/ 0		
EYES/EARS/NOSE							
APPARENT OPACITY RIGHT EYE		0/ 0	1/ 1	0/ 0	0/ 0		
RIGHT EYE SMALL IN SIZE		0/ 0	1/ 1	0/ 0	0/ 0		
-----							
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

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TABLE 54 (F1 - PRE-WEANING)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF OFFSPRING WEIGHTS [G]

DOSE GROUP:		0 PPM	500 PPM	(LITTER AS EXPERIMENTAL UNIT)		1000 PPM	2500 PPM	WIL HISTORICAL CONTROL-A
-----								
PND 1								
MALES	MEAN	6.9	6.6	6.7	6.7	6.7	6.7	7.0
	S.D.	0.79	0.68	0.69	0.69	0.69	0.69	0.20
	N	22	28	27	27	27	27	7
FEMALES	MEAN	6.5	6.1	6.3	6.4	6.4	6.4	6.5
	S.D.	0.77	0.58	0.60	0.61	0.61	0.61	0.20
	N	22	28	27	27	27	27	7
PND 4 (BEFORE SELECTION)								
MALES	MEAN	9.4	8.7*	9.3	9.2	9.2	9.2	9.6
	S.D.	1.41	1.30	1.19	0.97	0.97	0.97	0.59
	N	22	28	27	26	26	26	7
FEMALES	MEAN	9.0	8.2*	8.8	8.9	8.9	8.9	9.1
	S.D.	1.34	1.17	1.15	0.87	0.87	0.87	0.53
	N	22	28	27	26	26	26	7
PND 7								
MALES	MEAN	12.9	11.0**	12.0	12.3	12.3	12.3	13.8
	S.D.	2.10	2.32	1.74	1.91	1.91	1.91	1.70
	N	22	28	27	26	26	26	7
FEMALES	MEAN	12.5	10.2**	11.3	11.9	11.9	11.9	13.0
	S.D.	2.05	2.09	1.68	1.75	1.75	1.75	1.59
	N	22	28	27	26	26	26	7

-----  
 PND = POSTNATAL DAY  
 A = HISTORICAL CONTROL DATA FOR INHALATION STUDIES, WHERE N = NUMBER OF STUDIES  
 \* = Significantly different from the control group at 0.05 using Student's T-test  
 \*\* = Significantly different from the control group at 0.01 using Student's T-test

DOSE GROUP:		0 PPM	500 PPM	(LITTER AS EXPERIMENTAL UNIT)		1000 PPM	2500 PPM	WIL HISTORICAL CONTROL-A
PND 14								
MALES	MEAN	24.0	20.4*	21.5	22.1	26.1		
	S.D.	3.90	5.11	3.38	4.64	2.50		
	N	22	26	27	26	7		
FEMALES	MEAN	23.3	19.5**	20.5*	21.5	24.9		
	S.D.	3.71	4.77	3.19	4.02	2.58		
	N	22	26	27	26	7		
PND 21								
MALES	MEAN	38.5	32.9**	33.4*	35.4	41.7		
	S.D.	6.58	7.00	4.83	5.47	4.87		
	N	22	26	27	25	7		
FEMALES	MEAN	36.9	31.5**	32.1*	34.4	40.0		
	S.D.	6.17	6.45	4.55	4.12	4.62		
	N	22	26	27	25	7		
PND 28								
MALES	MEAN	72.0	60.5**	64.1	67.4	NA		
	S.D.	11.57	14.90	10.50	10.07			
	N	22	26	27	25			
FEMALES	MEAN	66.7	56.7**	59.5	63.4	NA		
	S.D.	9.94	12.70	8.55	6.95			
	N	22	26	27	25			

PND = POSTNATAL DAY  
 A = HISTORICAL CONTROL DATA FOR INHALATION STUDIES, WHERE N = NUMBER OF STUDIES  
 NA = NOT APPLICABLE  
 \* = Significantly different from the control group at 0.05 using Student's T-test  
 \*\* = Significantly different from the control group at 0.01 using Student's T-test

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TABLE 55 (F1 - POST-WEANING)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF OFFSPRING WEIGHTS [G]

PAGE 1

DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
PND 32					
MALES	MEAN	96.8	83.8**	85.6	93.3
	S.D.	12.84	21.22	14.40	14.48
	N	42	45	53	50
FEMALES	MEAN	88.5	77.7**	78.7	86.4
	S.D.	12.27	16.47	12.39	9.91
	N	41	45	55	53
PND 35					
MALES	MEAN	117.7	103.6*	104.8	114.8
	S.D.	16.66	24.76	17.78	17.63
	N	39	45	51	50
FEMALES	MEAN	107.2	94.4**	95.0	103.8
	S.D.	14.07	18.92	14.60	11.78
	N	38	45	53	53

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Student's T-test

\*\* = Significantly different from the control group at 0.01 using Student's T-test

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DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
(LITTER AS EXPERIMENTAL UNIT)					
PND 1 TO 4	(BEFORE SELECTION)				
MALES	MEAN	2.5	2.1	2.6	2.6
	S.D.	0.76	0.83	0.77	0.65
	N	22	28	27	26
FEMALES	MEAN	2.5	2.0	2.5	2.5
	S.D.	0.72	0.80	0.75	0.60
	N	22	28	27	26
PND 4 TO 7					
MALES	MEAN	3.5	2.3**	2.7*	3.1
	S.D.	1.00	1.20	0.82	1.08
	N	22	28	27	26
FEMALES	MEAN	3.5	2.1**	2.6**	3.0
	S.D.	0.98	1.10	0.78	1.05
	N	22	28	27	26
PND 7 TO 14					
MALES	MEAN	11.1	9.3	9.5	9.8
	S.D.	2.13	3.10	1.94	2.93
	N	22	26	27	26
FEMALES	MEAN	10.8	9.1	9.2	9.6
	S.D.	2.02	3.00	1.89	2.58
	N	22	26	27	26

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Student's T-test

\*\* = Significantly different from the control group at 0.01 using Student's T-test

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TABLE 56 (F1 - PRE-WEANING)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF OFFSPRING WEIGHT CHANGES [G]

PAGE 2

DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
(LITTER AS EXPERIMENTAL UNIT)					
-----					
PND 14 TO 21					
MALES	MEAN	14.5	12.5*	12.0**	12.7*
	S.D.	3.06	2.37	1.75	2.60
	N	22	26	27	25
FEMALES	MEAN	13.6	12.0*	11.6**	12.4
	S.D.	2.76	2.25	1.69	1.98
	N	22	26	27	25
PND 21 TO 28					
MALES	MEAN	33.6	27.6**	30.7	32.0
	S.D.	5.76	8.14	6.12	5.17
	N	22	26	27	25
FEMALES	MEAN	29.6	25.2**	27.4	29.0
	S.D.	5.01	6.55	4.62	3.41
	N	22	26	27	25
-----					

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 57 (F1 - POST-WEANING)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF OFFSPRING WEIGHT CHANGES [G]

DOSE GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
PND 28 TO 32				
MALES MEAN	24.8	22.2	21.3*	24.7
S.D.	5.04	6.10	7.11	5.14
N	42	45	53	50
FEMALES MEAN	21.4	19.4	19.3	21.7
S.D.	4.94	5.17	3.95	4.11
N	41	45	55	53
PND 32 TO 35				
MALES MEAN	21.2	19.8	19.0	21.6
S.D.	4.49	4.48	4.12	4.46
N	39	45	51	50
FEMALES MEAN	18.5	16.8	16.3*	17.4
S.D.	3.08	3.56	4.40	3.43
N	38	45	53	53
-----				

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 57 (F1 - POST-WEANING)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF OFFSPRING WEIGHT CHANGES [G]

PAGE 2

DOSE GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
PND 28 TO 35				
MALES MEAN	46.0	42.0	40.4*	46.3
S.D.	8.84	9.83	10.43	8.71
N	39	45	51	50
FEMALES MEAN	40.1	36.2*	35.7**	39.1
S.D.	6.67	8.09	6.72	6.57
N	38	45	53	53

-----  
PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Dunnett's test

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 58 (F1 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 1

DOSE GROUP:	P U P S				L I T T E R S			
	1	2	3	4	1	2	3	4
NUMBER EXAMINED VISCERALLY	13	23	21	31-A	8	12	10	12
BRAIN DISCOLORATION, DARK RED	0	1	0	0	0	1	0	0
LUNGS NOT FULLY COLLAPSED	0	1	0	0	0	1	0	0
STOMACH MILK PRESENT	0	4	2	3	0	3	2	1
MILK NOT PRESENT	7	4	11	10	6	3	6	6
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM					

A = INCLUDES 5 PUPS FROM LITTER NO. 74784 THAT DROWNED DUE TO TECHNICAL ERROR

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TABLE 59 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

DOSE GROUP:	P U P S				L I T T E R S			
	1	2	3	4	1	2	3	4
NUMBER EXAMINED VISCERALLY	66	96	97	87	21	27	27	25
LIVER AREA(S), RAISED	0	1	0	0	0	1	0	0
STOMACH MILK PRESENT	0	12	0	0	0	1	0	0
KIDNEY DILATED PELVIS	0	0	2	0	0	0	2	0
VARIATION OVIDUCT- CYSTS	0	0	0	1	0	0	0	1
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM					

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TABLE 60 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

SCHEDULED NECROPSY

GROUP:	M A L E				F E M A L E			
	1	2	3	4	1	2	3	4
NUMBER OF ANIMALS EXAMINED	22	26	26	25	21	26	27	25
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	22	26	26	25	21	26	27	25

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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TABLE 61 (F1 - PND 28)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
MEAN		1.4819	1.4222		1.4380	1.4847
S.D.		0.10731	0.13772		0.10135	0.08379
N		22	26		26	25
SPLEEN (G)						
MEAN		0.3050	0.2690		0.2779	0.3150
S.D.		0.05189	0.07299		0.03896	0.03778
N		22	26		26	25
THYMUS GLAND (G)						
MEAN		0.3313	0.2678*		0.2890	0.3114
S.D.		0.07232	0.09643		0.06929	0.06951
N		22	26		26	25

\* = Significantly different from the control group at 0.05 using Dunnett's test

TABLE 61 (F1 - PND 28)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	1.4383	1.3568*	1.3862	1.4197	
	S.D.	0.08886	0.11131	0.10264	0.07730	
	N	21	26	27	25	
SPLEEN (G)						
	MEAN	0.2610	0.2457	0.2488	0.2640	
	S.D.	0.04514	0.05899	0.04541	0.03643	
	N	21	26	27	25	
THYMUS GLAND (G)						
	MEAN	0.3105	0.2659	0.2830	0.2793	
	S.D.	0.07322	0.08683	0.08336	0.04871	
	N	21	26	27	25	

\* = Significantly different from the control group at 0.05 using Dunnett's test

TABLE 62 (F1 - PND 28)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
FINAL BODY WT (G)				
MEAN	72.	61.*	65.	68.
S.D.	11.8	15.7	10.2	10.1
N	22	26	26	25
BRAIN				
MEAN	2.127	2.460	2.255	2.222
S.D.	0.4077	0.5966	0.3431	0.3517
N	22	26	26	25
SPLEEN				
MEAN	0.428	0.441	0.432	0.470
S.D.	0.0535	0.0595	0.0646	0.0812
N	22	26	26	25
THYMUS GLAND				
MEAN	0.462	0.428	0.440	0.455
S.D.	0.0653	0.0793	0.0653	0.0717
N	22	26	26	25

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 62 (F1 - PND 28)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2  
 DAY 28

---

----- F E M A L E -----

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
FINAL BODY WT (G)				
MEAN	66.	57.	60.	63.
S.D.	10.2	14.5	10.4	8.5
N	21	26	27	25
BRAIN				
MEAN	2.252	2.555	2.364	2.297
S.D.	0.4143	0.7034	0.3501	0.2988
N	21	26	27	25
SPLEEN				
MEAN	0.399	0.441	0.417	0.427
S.D.	0.0493	0.0819	0.0536	0.0798
N	21	26	27	25
THYMUS GLAND				
MEAN	0.470	0.460	0.465	0.446
S.D.	0.0734	0.0647	0.0930	0.0656
N	21	26	27	25

---

None significantly different from control group

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TABLE 63 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF DEVELOPMENTAL PARAMETERS

BALANOPREPUTIAL SEPARATION

DOSE GROUP	TOTAL PUPS	DAY: 35	36	37	38	39	40	41	42	43	
MALES											
1	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%
2	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
3	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
4	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM				

BALANOPREPUTIAL SEPARATION

DOSE GROUP	TOTAL PUPS	DAY:	44	45	46	47	48	49	50	51	52
	MALES										
1	30	2	7.%	5 17.%	8 27.%	10 33.%	13 43.%	15 50.%	17 57.%	23 77.%	26 87.%
2	30	0	0.%	1 3.%	7 23.%	9 30.%	11 37.%	13 43.%	15 50.%	18 60.%	21 70.%
3	30	1	3.%	3 10.%	7 23.%	10 33.%	10 33.%	11 37.%	19 63.%	23 77.%	24 80.%
4	30	2	7.%	5 17.%	7 23.%	13 43.%	19 63.%	23 77.%	25 83.%	27 90.%	27 90.%
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM				

BALANOPREPUTIAL SEPARATION

DOSE GROUP	TOTAL PUPS	DAY:	53	54	55	56	57	58	59	60	61
MALES											
1	30	27	90.%	28	93.%	29	97.%	30	100.%		
2	30	23	77.%	26	87.%	26	87.%	27	90.%	28	93.%
3	30	26	87.%	26	87.%	26	87.%	26	87.%	27	90.%
4	30	27	90.%	28	93.%	28	93.%	28	93.%	29	97.%
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM				

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TABLE 63 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF DEVELOPMENTAL PARAMETERS

PAGE 4

BALANOPREPUTIAL SEPARATION

-----  
DOSE    TOTAL    DAY:    62  
GROUP    PUPS  
-----  
          MALES  
2            30        30 100.%  
-----  
1-        0 PPM        2-    500 PPM        3-    1000 PPM        4-    2500 PPM  
-----

PBBSUv3.03  
09/04/2002  
R:09/26/2002

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 64 (F1 - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF DAYS OF ACQUISITION AND BODY WEIGHTS [G]

PAGE 1

GROUP :	1	2	3	4
-----				
DAY OF ACQUISITION				
MEAN	49.0	51.1	50.0	48.4
S.D.	3.02	4.42	4.07	3.43
N	22	26	27	25
BODY WEIGHT				
MEAN	236.1	220.9*	222.0	221.9
S.D.	18.37	22.41	19.21	22.25
N	22	26	27	25
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
-----				

Significantly different from control group at 0.05 using Dunnett's test

MANUALv1.0  
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VAGINAL PATENCY

DOSE GROUP	TOTAL PUPS	DAY: 25	26	27	28	29	30	31	32	33					
FEMALES															
1	36	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	11.1%	9	25.0%
2	38	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	5.3%
3	45	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.2%	2	4.4%
4	45	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.2%	3	7.8%
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM								

VAGINAL PATENCY

DOSE GROUP	TOTAL PUPS	DAY: 34	35	36	37	38	39	40	41	42
FEMALES										
1	36	15 42.%	21 58.%	29 81.%	30 83.%	34 94.%	34 94.%	34 94.%	35 97.%	36 100.%
2	38	14 37.%	17 45.%	19 50.%	24 63.%	28 74.%	31 82.%	32 84.%	33 87.%	36 95.%
3	45	11 24.%	18 40.%	28 62.%	36 80.%	40 89.%	41 91.%	43 96.%	45 100.%	
4	45	19 42.%	30 67.%	38 84.%	40 89.%	42 93.%	43 96.%	44 98.%	45 100.%	
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM			

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 65 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF DEVELOPMENTAL PARAMETERS

PAGE 3

VAGINAL PATENCY

---

DOSE	TOTAL	DAY:	43		44
GROUP	PUPS				
<hr/>					
	FEMALES				
2	38	37	97.%	38	100.%
<hr/>					
1-	0 PPM	2-	500 PPM	3-	1000 PPM
				4-	2500 PPM
<hr/>					

PBBSUv3.03  
09/04/2002  
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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 66 (F1 - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF DAYS OF ACQUISITION AND BODY WEIGHTS [G]

PAGE 1

GROUP :	1	2	3	4
-----				
DAY OF ACQUISITION				
MEAN	35.3	37.4**	36.0	35.2
S.D.	2.36	3.17	1.71	2.12
N	22	26	27	25
MEAN BODY WEIGHT				
MEAN	109.0	105.9	104.0	105.9
S.D.	12.09	12.76	12.95	12.68
N	22	26	27	25
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
-----				

\*\* = Significantly different from control group at 0.01 using Dunnett's test

MANUALv1.0  
09/09/2002  
R:12/09/2002

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 67 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SURVIVAL AND DISPOSITION

PAGE 1

GROUP :	MALES															
	1				2				3				4			
WEEK	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE
16	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
17	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
18	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
19	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
20	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
21	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
22	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
23	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
24	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
25	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
26	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
27	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
28	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
29	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
30	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
31	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
32	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
33	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
34	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
35	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
36	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
37	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0
38	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	30

WEEK = WEEK OF STUDY    FD = FOUND DEAD    EE = EUTHANIZED IN EXTREMIS    SE = SCHEDULED EUTHANASIA

1- 0 PPM    2- 500 PPM    3- 1000 PPM    4- 2500 PPM

PSURVv4.02  
 09/04/2002  
 R:09/14/2002

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TABLE 68 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SURVIVAL AND DISPOSITION

GROUP :		1				2				FEMALES 3				4			
WEEK	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE	
16	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
17	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
18	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
19	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
20	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
21	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
22	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
23	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
24	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
25	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
26	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
27	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
28	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
29	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
30	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	
31	30	0	0	0	30	0	0	0	30	0	0	0	30	0	0	0	

WEEK = WEEK OF STUDY    FD = FOUND DEAD    EE = EUTHANIZED IN EXTREMIS    SE = SCHEDULED EUTHANASIA

1-    0 PPM                    2-    500 PPM                    3-    1000 PPM                    4-    2500 PPM

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 68 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SURVIVAL AND DISPOSITION

PAGE 2

GROUP :		1		2		FEMALES 3		4				
WEEK	LIVE	FD	EE	SE	LIVE	FD	EE	SE	LIVE	FD	EE	SE
32	30	0	0	0	30	0	0	0	30	0	0	0
33	30	0	0	0	30	0	0	0	30	0	0	0
34	30	0	0	0	30	0	0	0	30	0	0	0
35	30	0	0	0	30	0	0	0	30	0	0	0
36	30	0	0	0	30	0	0	0	30	0	0	0
37	30	0	0	0	30	0	0	0	30	0	0	0
38	0	0	0	30	0	0	0	30	0	0	0	30

WEEK = WEEK OF STUDY    FD = FOUND DEAD    EE = EUTHANIZED IN EXTREMIS    SE = SCHEDULED EUTHANASIA

1-    0 PPM                    2-    500 PPM                    3-    1000 PPM                    4-    2500 PPM

PSURVv4.02  
 10/04/2002  
 R:07/08/2003

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 69 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

TABLE RANGE:	01-02-02 TO 05-31-02			
GROUP:	1	2	3	4
NORMAL				
-NO SIGNIFICANT CLINICAL OBSERVATIONS	576/30	586/30	555/30	593/30
DISPOSITION				
-SCHEDULED EUTHANASIA	30/30	30/30	30/30	30/30
BODY/INTEGUMENT				
-DRIED BROWN MATERIAL ANOGENITAL AREA	0/ 0	0/ 0	1/ 1	0/ 0
-DISTAL END OF TAIL MISSING	19/ 1	0/ 0	0/ 0	0/ 0
-SCABBING LEFT LATERAL THORACIC AREA	0/ 0	0/ 0	0/ 0	1/ 1
-SCABBING RIGHT LATERAL NECK	0/ 0	0/ 0	0/ 0	1/ 1
-HAIR LOSS RIGHT LATERAL THORACIC AREA	0/ 0	0/ 0	0/ 0	1/ 1
-SCABBING RIGHT SHOULDER AREA	0/ 0	0/ 0	5/ 1	0/ 0
-HAIR LOSS RIGHT FORELIMB	11/ 1	11/ 2	8/ 2	7/ 2
-HAIR LOSS LEFT FORELIMB	11/ 1	1/ 1	7/ 2	7/ 2
-SCABBING RIGHT FORELIMB	1/ 1	0/ 0	0/ 0	0/ 0
-DRIED MATERIAL DORSAL HEAD	0/ 0	0/ 0	1/ 1	0/ 0
-HAIR LOSS VENTRAL NECK	2/ 1	0/ 0	0/ 0	0/ 0
-HAIR LOSS LEFT SHOULDER AREA	0/ 0	0/ 0	0/ 0	1/ 1
EYES/EARS/NOSE				
-DRIED RED MATERIAL AROUND NOSE	15/ 8	7/ 5	7/ 4	7/ 4
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 69 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 2

----- M A L E -----

TABLE RANGE:	01-02-02 TO 05-31-02			
GROUP:	1	2	3	4
<b>EYES/EARS/NOSE</b>				
-DRIED RED MATERIAL AROUND RIGHT EYE	0/ 0	16/ 1	34/ 3	5/ 1
-DRIED RED MATERIAL AROUND LEFT EYE	1/ 1	0/ 0	34/ 4	0/ 0
-HAIR LOSS DORSAL NOSE	0/ 0	1/ 1	0/ 0	0/ 0
-DRIED RED MATERIAL DORSAL NOSE	0/ 0	0/ 0	0/ 0	1/ 1
-NOSE APPEARS SWOLLEN	0/ 0	0/ 0	2/ 1	0/ 0
-NOSE DEVIATED TOWARDS LEFT, RED WET DISCHARGE BOTH NOSTRILS	0/ 0	0/ 0	1/ 1	0/ 0
-MECHANICAL INJURY, GASPING FOR AIR, RED WET MATERIAL DISCHARGES THROUGH THE NOSE	0/ 0	0/ 0	1/ 1	0/ 0
-RIGHT EAR APPEARS RED AND SWOLLEN	0/ 0	0/ 0	0/ 0	3/ 1
-LEFT EAR APPEARS RED AND SWOLLEN	0/ 0	0/ 0	0/ 0	4/ 1
<b>EXCRETA</b>				
-SOFT STOOL	1/ 1	4/ 2	8/ 7	7/ 7
<b>ORAL/DENTAL</b>				
-UPPER INCISORS MALALIGNED	0/ 0	3/ 1	31/ 5	3/ 1
-TEETH LONG, TRIMMED	0/ 0	6/ 1	19/ 3	2/ 1
-UPPER INCISORS AVULSED ROSTRALLY	0/ 0	0/ 0	0/ 0	1/ 1
-MAXILLARY AREA SLIGHTLY SWOLLEN	0/ 0	0/ 0	0/ 0	1/ 1

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PCSuv4.04  
 12/09/2002

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 70 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

	TABLE RANGE: GROUP:	1	01-02-02 TO 05-31-02 2	3	4
-----					
NORMAL					
-NO SIGNIFICANT CLINICAL OBSERVATIONS		570/30	576/29	596/30	544/29
DISPOSITION					
-SCHEDULED EUTHANASIA		30/30	30/30	30/30	30/30
BODY/INTEGUMENT					
-DISTAL END OF TAIL MISSING		0/ 0	20/ 1	0/ 0	0/ 0
-TAIL ABSENT		0/ 0	0/ 0	0/ 0	20/ 1
-SCABBING DORSAL THORACIC AREA		0/ 0	2/ 1	3/ 1	0/ 0
-HAIR LOSS DORSAL THORACIC AREA		0/ 0	2/ 1	3/ 1	0/ 0
-HAIR LOSS RIGHT FORELIMB		20/ 7	14/ 4	15/ 3	34/ 7
-HAIR LOSS LEFT FORELIMB		28/ 5	14/ 4	16/ 2	32/ 5
-HAIR LOSS DORSAL RUMP		0/ 0	1/ 1	0/ 0	0/ 0
-DRIED YELLOW MATERIAL UROGENITAL AREA		0/ 0	0/ 0	1/ 1	0/ 0
-HAIR LOSS VENTRAL NECK		0/ 0	0/ 0	1/ 1	0/ 0
-DRIED RED MATERIAL DORSAL HEAD		1/ 1	0/ 0	0/ 0	0/ 0
-SCABBING LEFT FORELIMB		1/ 1	1/ 1	0/ 0	2/ 1
-HAIR LOSS RIGHT HINDLIMB		2/ 1	0/ 0	0/ 0	1/ 1
-HAIR LOSS LEFT HINDLIMB		0/ 0	0/ 0	0/ 0	1/ 1
-WET RED MATERIAL ANOGENITAL AREA		1/ 1	0/ 0	0/ 0	0/ 0
-SCABBING RIGHT FORELIMB		1/ 1	0/ 0	2/ 1	0/ 0
-----					
1-	0 PPM	2-	500 PPM	3-	1000 PPM
				4-	2500 PPM

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 70 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 2

----- F E M A L E -----

TABLE RANGE:	01-02-02 TO 05-31-02			
GROUP:	1	2	3	4
BODY/INTEGUMENT				
-SCABBING LEFT HINDLIMB	0/ 0	0/ 0	0/ 0	1/ 1
-HAIR LOSS LUMBAR AREA	0/ 0	2/ 1	0/ 0	0/ 0
-HAIR LOSS VENTRAL THORACIC AREA	0/ 0	0/ 0	0/ 0	2/ 1
-HAIR LOSS RIGHT LATERAL THORACIC AREA	0/ 0	0/ 0	0/ 0	2/ 1
-HAIR LOSS UROGENITAL AREA	0/ 0	1/ 1	0/ 0	0/ 0
EYES/EARS/NOSE				
-DRIED RED MATERIAL AROUND RIGHT EYE	15/ 2	0/ 0	0/ 0	0/ 0
-DRIED RED MATERIAL AROUND NOSE	3/ 2	4/ 3	3/ 3	5/ 5
-RED AND SWOLLEN RIGHT EAR	0/ 0	0/ 0	0/ 0	21/ 2
-RED AND SWOLLEN LEFT EAR	0/ 0	0/ 0	0/ 0	21/ 2
-DRIED RED MATERIAL AROUND LEFT EYE	1/ 1	0/ 0	0/ 0	0/ 0
EXCRETA				
-SOFT STOOL	0/ 0	1/ 1	0/ 0	0/ 0
ORAL/DENTAL				
-TEETH LONG, TRIMMED	5/ 1	0/ 0	0/ 0	0/ 0
-UPPER INCISORS MALALIGNED	1/ 1	0/ 0	0/ 0	0/ 0
SPECIAL II				
-ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY	11/11	6/ 6	6/ 6	10/10

-----  
 1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 70 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 3

----- F E M A L E -----

TABLE RANGE:		01-02-02 TO 05-31-02					
GROUP:		1	2	3	4		
SPECIAL II							
-ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY		12/12	12/12	14/14	10/10		
-ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY		1/ 1	4/ 4	2/ 2	5/ 5		
-ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY		6/ 6	8/ 8	8/ 8	5/ 5		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

PCSUV4.04  
12/09/2002

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 71 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

TABLE RANGE:		01-02-02 TO 05-30-02			
GROUP:	1	2	3	4	
-----					
AT TIME OF DOSING					
BEHAVIOR/CNS					
-NO REACTION TO STIMULUS	778/10	671/10	805/ 9	478/ 5	
-SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD	515/10	637/10	404/ 9	204/ 5	
-MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)	146/ 8	149/10	91/ 8	39/ 4	
-----					
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM		

PCSUv4.04  
12/11/2002

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 72 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

TABLE RANGE:		01-02-02 TO 05-30-02			
GROUP:	1	2	3	4	
BEHAVIOR/CNS					
-NO REACTION TO STIMULUS	372/ 6	705/ 7	576/ 8	805/ 9	
-SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD	365/ 6	229/ 7	439/ 8	395/ 9	
-MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)	90/ 6	47/ 7	108/ 8	64/ 9	

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PCSUV4.04  
12/09/2002  
R:12/09/2002

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 73 (F1 MALES - 1-HOUR POST-EXPOSURE)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- M A L E -----

TABLE RANGE:		01-02-02 TO 05-30-02					
GROUP:		1	2	3	4		
EXCRETA							
-URINE WITH APPARENT RED MATERIAL		0/ 0	1/ 1	0/ 0	0/ 0		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

PCSUv4.04  
09/04/2002  
R:12/09/2002

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 74 (F1 FEMALES - 1-HOUR POST-EXPOSURE)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF CLINICAL FINDINGS: TOTAL OCCURRENCE/NO. OF ANIMALS

PAGE 1

----- F E M A L E -----

-----  
TABLE RANGE: 01-02-02 TO 05-30-02  
GROUP: 1 2 3 4  
-----

THERE WERE NO SIGNIFICANT CLINICAL FINDINGS ONE HOUR FOLLOWING THE COMPLETION OF EXPOSURE

-----  
1- 0 PPM 2- 500 PPM 3- 1000 PPM 4- 2500 PPM  
-----

PCSUV4.04  
09/04/2002  
R:09/14/2002

TABLE 75 (F1)

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF REPRODUCTIVE PERFORMANCE

PAGE 1

DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
FEMALES ON STUDY	30		30		30		30	
FEMALES THAT DIED DURING STUDY	0		0		0		0	
FEMALES ALLOWED TO DELIVER	30		30		30		30	
NONGRAVID	8	26.7	5	16.7	7	23.3	6	20.0
GRAVID	22	73.3	25	83.3	23	76.7	24	80.0
DELIVERED	22	100.0	25	100.0	23	100.0	24	100.0
FEMALES WITH TOTAL LITTER LOSS	0	0.0	1	4.0	0	0.0	0	0.0
FEMALES WITH VIABLE PUPS	22	100.0	24	96.0	23	100.0	24	100.0
FEMALES WITH EVIDENCE OF MATING	29	96.7	28	93.3	26	86.7	25	83.3
NUMBER THAT DELIVERED	22	75.9	25	89.3	22	84.6	24	96.0
NUMBER THAT DID NOT DELIVER	7	24.1	3	10.7	4	15.4	1	4.0
FEMALES WITH NO EVIDENCE OF MATING	1	3.3	2	6.7	4	13.3	5	16.7
NUMBER THAT DELIVERED	0	0.0	0	0.0	1	25.0	0	0.0
NUMBER THAT DID NOT DELIVER	1	100.0	2	100.0	3	75.0	5	100.0
TOTAL FEMALES GRAVID	22	73.3	25	83.3	23	76.7	24	80.0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: POSITIVE EVIDENCE OF MATING DURING THE BREEDING PERIOD WAS CONFIRMED BY THE PRESENCE OF SPERM IN A VAGINAL SMEAR OR A COPULATORY PLUG.

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 75 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF REPRODUCTIVE PERFORMANCE

PAGE 2

DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
MALES ON STUDY	30		30		30		30	
MALES THAT DIED DURING STUDY	0		0		0		0	
MALES WITH EVIDENCE OF MATING	29	96.7	28	93.3	26	86.7	25	83.3
NO. THAT Sired A LITTER	22	75.9	25	89.3	22	84.6	24	96.0
NO. THAT DID NOT SIRE A LITTER	7	24.1	3	10.7	4	15.4	1	4.0
MALES WITH NO EVIDENCE OF MATING	1	3.3	2	6.7	4	13.3	5	16.7
NO. THAT Sired A LITTER	0	0.0	0	0.0	1	25.0	0	0.0
NO. THAT DID NOT SIRE A LITTER	1	100.0	2	100.0	3	75.0	5	100.0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: MALES WERE CONSIDERED TO HAVE Sired A LITTER IF THE PAIRED FEMALE WAS GRAVID, REGARDLESS OF DELIVERY STATUS  
 NOTE: POSITIVE EVIDENCE OF MATING DURING THE BREEDING PERIOD WAS CONFIRMED BY THE PRESENCE OF SPERM IN A VAGINAL SMEAR OR A COPULATORY PLUG.

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DOSE GROUP :	1		2		3		4	
	NO.	%	NO.	%	NO.	%	NO.	%
MALE MATING INDEX	29/30	96.7	28/30	93.3	27/30	90.0	25/30	83.3
FEMALE MATING INDEX	29/30	96.7	28/30	93.3	27/30	90.0	25/30	83.3
MALE FERTILITY INDEX	22/30	73.3	25/30	83.3	23/30	76.7	24/30	80.0
FEMALE FERTILITY INDEX	22/30	73.3	25/30	83.3	23/30	76.7	24/30	80.0
MEAN PRE-COITAL INTERVALS (DAYS)	4.0	NA	3.5	NA	3.8	NA	3.3	NA
S.D.	2.73	NA	2.17	NA	2.35	NA	1.97	NA
N	29		28		26		25	

$$\text{MALE (FEMALE) MATING INDEX (\%)} = \frac{\text{NO. OF MALES (FEMALES) WITH EVIDENCE OF MATING (OR CONFIRMED PREGNANCY)}}{\text{TOTAL NO. OF MALES (FEMALES) USED FOR MATING}} \times 100$$

$$\text{MALE FERTILITY INDEX (\%)} = \frac{\text{NO. OF MALES SIRING A LITTER}}{\text{TOTAL NO. OF MALES USED FOR MATING}} \times 100$$

$$\text{FEMALE FERTILITY INDEX (\%)} = \frac{\text{NO. OF FEMALES WITH CONFIRMED PREGNANCY}}{\text{TOTAL NO. OF FEMALES USED FOR MATING}} \times 100$$

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

NOTE: MALES WERE CONSIDERED TO HAVE Sired A LITTER IF THE PAIRED FEMALE WAS GRAVID, REGARDLESS OF DELIVERY STATUS  
 PRE-COITAL INTERVALS NOT SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP USING DUNNETT'S TEST  
 MATING AND FERTILITY INDICES NOT SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP USING CHI-SQUARE TEST  
 NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 76 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF ESTROUS CYCLE DATA

PAGE 1

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---- FEMALES ----

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
ESTROUS CYCLE LENGTH (DAYS)				
MEAN	4.7	4.3	4.1	4.2
S.D.	2.19	0.86	0.30	0.39
N	30	30	30	30

---

None significantly different from control group

PCYCV5.06  
09/04/2002

TABLE 77 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 134	MEAN	154.	140.		140.	153.
	S.D.	23.5	33.3		28.7	24.5
	N	30	30		30	30
141	MEAN	212.	194.		195.	210.
	S.D.	27.2	39.5		34.3	28.9
	N	30	30		30	30
148	MEAN	270.	245.*		248.*	265.
	S.D.	30.0	42.8		38.0	32.0
	N	30	30		30	30
155	MEAN	322.	291.**		292.**	311.
	S.D.	29.1	43.6		38.2	33.4
	N	30	30		30	30
162	MEAN	361.	326.**		327.**	348.
	S.D.	30.7	41.9		37.2	35.2
	N	30	30		30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 77 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 169	MEAN	391.	355.**		356.**	378.
	S.D.	32.3	42.5		37.4	38.3
	N	30	30		30	30
176	MEAN	416.	376.**		378.**	399.
	S.D.	35.1	43.1		39.1	40.4
	N	30	30		30	30
183	MEAN	440.	395.**		396.**	419.
	S.D.	36.3	43.2		39.9	46.0
	N	30	30		30	30
190	MEAN	460.	413.**		415.**	440.
	S.D.	37.8	45.7		41.9	48.4
	N	30	30		30	30
197	MEAN	474.	426.**		428.**	456.
	S.D.	38.1	45.2		42.7	52.7
	N	30	30		30	30

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 77 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 204	MEAN	486.	436.**		439.**	467.
	S.D.	40.4	46.7		45.0	54.6
	N	30	30		30	30
211	MEAN	493.	445.**		448.**	474.
	S.D.	39.3	48.5		45.0	54.2
	N	30	30		30	30
218	MEAN	506.	456.**		462.**	486.
	S.D.	40.9	48.6		47.7	55.9
	N	30	30		30	30
225	MEAN	516.	468.**		473.**	498.
	S.D.	41.7	50.3		47.8	58.7
	N	30	30		30	30
232	MEAN	522.	471.**		477.**	502.
	S.D.	42.4	50.4		49.1	62.1
	N	30	30		30	30

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 77 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
DAY 239	MEAN	529.	477.**		485.**	511.
	S.D.	40.8	50.8		49.1	65.2
	N	30	30		30	30
246	MEAN	540.	486.**		496.**	521.
	S.D.	41.7	50.6		49.7	66.2
	N	30	30		30	30
253	MEAN	538.	490.**		501.*	525.
	S.D.	41.5	52.9		53.0	66.3
	N	30	30		30	30
260	MEAN	543.	495.**		504.*	528.
	S.D.	44.6	53.4		52.3	68.2
	N	30	30		30	30
266	MEAN	546.	501.**		508.*	534.
	S.D.	44.8	50.9		53.0	68.4
	N	30	30		30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 78 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134	MEAN	131.	121.	122.	135.
	S.D.	19.8	20.6	19.1	15.2
	N	30	30	30	30
141	MEAN	164.	150.**	152.*	163.
	S.D.	18.2	19.7	18.0	16.1
	N	30	30	30	30
148	MEAN	190.	175.*	178.	188.
	S.D.	19.7	22.1	19.7	19.8
	N	30	30	30	30
155	MEAN	211.	197.*	200.	207.
	S.D.	18.9	23.7	19.0	19.7
	N	30	30	30	30
162	MEAN	228.	214.	219.	225.
	S.D.	20.0	24.7	22.0	24.4
	N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 78 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY 169	MEAN	242.	228.		232.	239.
	S.D.	20.7	25.7		20.3	26.5
	N	30	30		30	30
176	MEAN	253.	239.		244.	252.
	S.D.	21.4	26.6		21.7	26.5
	N	30	30		30	30
183	MEAN	265.	248.*		251.	260.
	S.D.	22.9	29.4		22.9	26.5
	N	30	30		30	30
190	MEAN	271.	257.		261.	269.
	S.D.	23.8	29.2		23.0	28.8
	N	30	30		30	30
197	MEAN	276.	261.		265.	275.
	S.D.	23.3	29.0		27.0	31.0
	N	30	30		30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

TABLE 78 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY 204	MEAN	281.	266.		271.	280.
	S.D.	24.6	31.1		24.1	29.8
	N	30	30		30	30
211	MEAN	279.	279.		283.	278.
	S.D.	28.0	25.7		29.6	34.9
	N	7	5		8	7
218	MEAN	309.	303.		297.	279.
	S.D.	0.0	17.7		44.5	40.6
	N	1	2		4	5
225	MEAN	325.	302.		301.	274.
	S.D.	0.0	24.0		51.0	31.1
	N	1	2		4	5
232	MEAN	306.	310.		288.	279.
	S.D.	9.3	17.0		36.5	31.6
	N	3	2		4	6

None significantly different from control group

TABLE 78 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
DAY 239	MEAN	315.	282.		307.	288.
	S.D.	28.2	38.4		27.3	34.6
	N	8	5		7	6
246	MEAN	320.	285.		311.	291.
	S.D.	26.7	37.9		31.3	37.1
	N	8	6		7	6
253	MEAN	318.	300.		304.	309.
	S.D.	23.7	38.6		25.3	29.0
	N	26	26		26	27
260	MEAN	316.	297.*		304.	315.
	S.D.	26.2	32.8		24.9	31.8
	N	29	30		30	30
266	MEAN	322.	303.		309.	319.
	S.D.	28.2	33.5		24.6	34.6
	N	30	30		30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 79 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	58.	54.	55.	57.
S.D.	6.7	8.2	7.8	6.2
N	30	30	30	30
141 TO 148				
MEAN	58.	51.**	53.*	56.
S.D.	6.2	6.3	10.3	6.0
N	30	30	30	30
148 TO 155				
MEAN	52.	45.**	44.**	46.**
S.D.	7.5	6.1	5.8	6.4
N	30	30	30	30
155 TO 162				
MEAN	39.	35.	35.	37.
S.D.	6.4	7.0	7.2	6.7
N	30	30	30	30
162 TO 169				
MEAN	30.	29.	29.	29.
S.D.	6.9	4.7	7.8	6.2
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 79 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	25.	21.*	21.*	22.
S.D.	5.7	4.9	6.3	8.9
N	30	30	30	30
176 TO 183				
MEAN	24.	18.**	19.**	20.
S.D.	4.6	4.8	5.3	8.8
N	30	30	30	30
183 TO 190				
MEAN	21.	19.	18.	20.
S.D.	4.8	5.4	9.0	5.0
N	30	30	30	30
190 TO 197				
MEAN	14.	13.	13.	16.
S.D.	4.6	4.3	5.9	7.8
N	30	30	30	30
197 TO 204				
MEAN	13.	10.	11.	11.
S.D.	5.4	5.0	7.3	6.6
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 79 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	M A L E				
	0 PPM	500 PPM	1000 PPM	2500 PPM	
DAY 204 TO 211					
MEAN	7.	9.	9.	7.	
S.D.	7.4	12.4	5.3	7.1	
N	30	30	30	30	
211 TO 218					
MEAN	13.	12.	14.	12.	
S.D.	6.8	10.0	6.4	5.8	
N	30	30	30	30	
218 TO 225					
MEAN	10.	11.	11.	12.	
S.D.	6.3	6.1	6.8	5.8	
N	30	30	30	30	
225 TO 232					
MEAN	6.	4.	3.	4.	
S.D.	7.5	6.6	7.9	12.0	
N	30	30	30	30	
232 TO 239					
MEAN	8.	6.	9.	9.	
S.D.	7.8	4.3	6.5	9.8	
N	30	30	30	30	

None significantly different from control group

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TABLE 79 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	M A L E				
	0 PPM	500 PPM	1000 PPM	2500 PPM	
DAY 239 TO 246					
MEAN	11.	9.	11.	10.	
S.D.	6.6	5.9	6.0	7.8	
N	30	30	30	30	
246 TO 253					
MEAN	-2.	4.*	5.**	4.*	
S.D.	8.8	8.6	7.9	5.8	
N	30	30	30	30	
253 TO 260					
MEAN	5.	5.	3.	4.	
S.D.	10.4	8.1	7.6	7.8	
N	30	30	30	30	
260 TO 266					
MEAN	3.	6.	4.	6.	
S.D.	6.4	9.4	7.0	5.8	
N	30	30	30	30	

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 80 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	32.	29.	30.	28.
S.D.	5.9	7.6	6.1	7.1
N	30	30	30	30
141 TO 148				
MEAN	26.	26.	26.	25.
S.D.	5.3	6.7	5.3	6.3
N	30	30	30	30
148 TO 155				
MEAN	22.	22.	22.	19.
S.D.	6.4	5.9	7.2	6.6
N	30	30	30	30
155 TO 162				
MEAN	17.	17.	19.	18.
S.D.	6.8	5.0	7.7	9.6
N	30	30	30	30
162 TO 169				
MEAN	14.	15.	13.	15.
S.D.	7.6	6.6	9.3	6.5
N	30	30	30	30

None significantly different from control group

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TABLE 80 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	11.	11.	12.	12.
S.D.	7.7	6.6	5.6	6.1
N	30	30	30	30
176 TO 183				
MEAN	12.	10.	7.**	8.*
S.D.	6.1	5.0	5.0	6.2
N	30	30	30	30
183 TO 190				
MEAN	6.	9.	9.	9.
S.D.	8.1	4.9	5.9	6.9
N	30	30	30	30
190 TO 197				
MEAN	5.	4.	4.	6.
S.D.	7.0	5.3	10.3	5.8
N	30	30	30	30
197 TO 204				
MEAN	5.	5.	6.	4.
S.D.	6.5	5.5	7.7	7.2
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 80 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

GROUP:		----- F E M A L E -----			
		0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 211	MEAN	0.	4.	3.	9.
	S.D.	4.8	5.5	9.7	9.2
	N	7	5	8	7
211 TO 218	MEAN	-9.	3.	16.	-1.
	S.D.	0.0	3.5	6.4	5.7
	N	1	2	4	5
218 TO 225	MEAN	16.	-1.	4.	-5.
	S.D.	0.0	6.4	27.3	14.8
	N	1	2	4	5
225 TO 232	MEAN	-9.	8.	1.	8.
	S.D.	0.0	7.1	5.9	7.3
	N	1	2	3	5
232 TO 239	MEAN	16.	2.	5.	10.
	S.D.	4.5	2.1	8.9	7.3
	N	3	2	4	6

TABLE 80 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES [G]

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GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	5.	5.	5.	3.
S.D.	6.5	5.4	5.0	7.3
N	8	5	7	6
246 TO 253				
MEAN	4.	1.	5.	0.
S.D.	4.4	7.3	8.9	3.7
N	8	6	7	6
253 TO 260				
MEAN	-1.	-1.	0.	6.
S.D.	14.4	11.3	14.4	10.1
N	26	26	26	27
260 TO 266				
MEAN	7.	6.	5.	4.
S.D.	8.3	8.1	6.2	7.7
N	29	30	30	30

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TABLE 81 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	58.	54.	55.	57.
S.D.	6.7	8.2	7.8	6.2
N	30	30	30	30
134 TO 148				
MEAN	116.	105.**	107.*	112.
S.D.	12.0	13.0	15.5	10.8
N	30	30	30	30
134 TO 155				
MEAN	168.	150.**	151.**	158.*
S.D.	15.5	16.1	17.6	14.0
N	30	30	30	30
134 TO 162				
MEAN	207.	186.**	186.**	195.
S.D.	20.2	17.8	19.6	18.2
N	30	30	30	30
134 TO 169				
MEAN	237.	215.**	216.**	225.
S.D.	24.4	19.8	23.0	22.3
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 81 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 176				
MEAN	262.	236.**	237.**	246.*
S.D.	26.7	22.3	26.0	25.5
N	30	30	30	30
134 TO 183				
MEAN	286.	254.**	256.**	266.*
S.D.	29.1	23.5	28.5	30.9
N	30	30	30	30
134 TO 190				
MEAN	306.	273.**	274.**	287.*
S.D.	30.9	25.9	30.2	34.0
N	30	30	30	30
134 TO 197				
MEAN	320.	286.**	288.**	303.
S.D.	31.5	25.1	32.1	38.7
N	30	30	30	30
134 TO 204				
MEAN	332.	295.**	299.**	314.
S.D.	34.1	27.3	34.6	41.7
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 81 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 211				
MEAN	339.	304.**	308.**	321.
S.D.	34.3	29.9	34.3	41.0
N	30	30	30	30
134 TO 218				
MEAN	352.	316.**	322.**	333.
S.D.	36.6	29.9	35.5	43.0
N	30	30	30	30
134 TO 225				
MEAN	362.	327.**	333.*	345.
S.D.	38.3	31.2	37.2	46.0
N	30	30	30	30
134 TO 232				
MEAN	368.	331.**	336.**	349.
S.D.	38.4	32.1	37.5	49.2
N	30	30	30	30
134 TO 239				
MEAN	376.	337.**	345.*	358.
S.D.	38.1	31.9	37.8	52.5
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 81 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 246				
MEAN	386.	345.**	356.*	368.
S.D.	37.9	31.6	38.3	53.2
N	30	30	30	30
134 TO 253				
MEAN	384.	349.**	361.	372.
S.D.	39.0	35.3	40.5	53.1
N	30	30	30	30
134 TO 260				
MEAN	389.	355.**	364.	375.
S.D.	42.2	37.1	41.8	55.6
N	30	30	30	30
134 TO 266				
MEAN	392.	361.*	368.	381.
S.D.	42.7	35.1	41.3	55.7
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 82 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	32.	29.	30.	28.
S.D.	5.9	7.6	6.1	7.1
N	30	30	30	30
134 TO 148				
MEAN	58.	55.	56.	53.
S.D.	8.3	11.2	8.3	11.4
N	30	30	30	30
134 TO 155				
MEAN	80.	76.	78.	72.
S.D.	10.8	14.1	11.7	12.7
N	30	30	30	30
134 TO 162				
MEAN	97.	93.	97.	90.
S.D.	14.4	15.7	15.2	17.0
N	30	30	30	30
134 TO 169				
MEAN	111.	108.	110.	104.
S.D.	16.5	17.6	15.9	20.3
N	30	30	30	30

None significantly different from control group

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TABLE 82 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 176				
MEAN	122.	118.	122.	117.
S.D.	16.9	20.2	15.7	20.0
N	30	30	30	30
134 TO 183				
MEAN	134.	128.	129.	125.
S.D.	17.7	22.3	15.4	20.1
N	30	30	30	30
134 TO 190				
MEAN	140.	137.	139.	134.
S.D.	21.5	22.9	17.0	21.7
N	30	30	30	30
134 TO 197				
MEAN	145.	140.	143.	140.
S.D.	20.3	24.4	21.9	24.5
N	30	30	30	30
134 TO 204				
MEAN	149.	145.	149.	145.
S.D.	20.8	25.1	17.6	22.5
N	30	30	30	30

-----  
 None significantly different from control group

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TABLE 82 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

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GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 211				
MEAN	151.	153.	156.	142.
S.D.	15.7	24.5	17.1	27.1
N	7	5	8	7
134 TO 218				
MEAN	155.	179.	175.	141.
S.D.	0.0	12.7	24.5	32.6
N	1	2	4	5
134 TO 225				
MEAN	171.	179.	179.	136.
S.D.	0.0	6.4	29.1	22.2
N	1	2	4	5
134 TO 232				
MEAN	172.	187.	174.	144.
S.D.	11.8	13.4	23.2	23.2
N	3	2	4	6
134 TO 239				
MEAN	186.	160.	182.	153.
S.D.	25.4	29.9	19.1	24.6
N	8	5	7	6

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TABLE 82 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF CUMULATIVE BODY WEIGHT CHANGES [G]

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GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 246				
MEAN	191.	167.	187.	156.
S.D.	27.7	28.8	21.7	28.4
N	8	6	7	6
134 TO 253				
MEAN	185.	182.	182.	174.
S.D.	23.8	28.3	19.8	24.4
N	26	26	26	27
134 TO 260				
MEAN	183.	177.	182.	180.
S.D.	23.2	27.0	20.4	24.8
N	29	30	30	30
134 TO 266				
MEAN	190.	182.	187.	184.
S.D.	25.2	27.2	19.7	27.8
N	30	30	30	30

---

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 83 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS DURING GESTATION [G]

PAGE 1

GROUP :		1	2	3	4		
DAY 0	MEAN	275.	266.	268.	285.		
	S.D./N	21.3/22	28.7/25	22.2/22	29.9/24		
DAY 4	MEAN	294.	282.	284.	302.		
	S.D./N	22.5/22	29.4/25	22.6/22	30.8/24		
DAY 7	MEAN	304.	290.	293.	309.		
	S.D./N	23.0/22	28.7/25	28.6/22	30.3/24		
DAY 11	MEAN	323.	308.	313.	331.		
	S.D./N	22.7/22	31.8/25	25.4/22	32.7/24		
DAY 14	MEAN	333.	319.	322.	342.		
	S.D./N	24.4/22	32.1/25	29.0/22	31.2/24		
DAY 20	MEAN	394.	388.	388.	412.		
	S.D./N	23.6/22	38.6/25	34.3/22	39.0/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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 09/04/2002

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 SPONSOR:ACC

TABLE 84 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 1

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	20.	16.	17.	17.		
	S.D./N	6.5/22	5.5/25	6.8/22	5.6/24		
DAY	4- 7 MEAN	10.	8.	9.	8.		
	S.D./N	6.7/22	4.4/25	12.1/22	7.3/24		
DAY	7- 11 MEAN	19.	18.	20.	22.		
	S.D./N	6.8/22	5.7/25	10.3/22	8.7/24		
DAY	11- 14 MEAN	10.	11.	9.	11.		
	S.D./N	6.7/22	5.2/25	9.5/22	4.9/24		
DAY	14- 20 MEAN	61.	69.	67.	70.		
	S.D./N	14.1/22	11.9/25	14.3/22	17.5/24		
DAY	0- 20 MEAN	119.	122.	121.	127.		
	S.D./N	15.2/22	18.9/25	21.5/22	20.6/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 85 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHTS DURING LACTATION [G]

PAGE 1

GROUP :		1	2	3	4		
DAY 1	MEAN	302.	292.	298.	314.		
	S.D./N	22.2/22	28.0/25	22.2/23	31.2/24		
DAY 4	MEAN	316.	302.	308.	329.		
	S.D./N	25.1/22	30.6/25	26.8/23	27.9/24		
DAY 7	MEAN	326.	308.	312.	336.		
	S.D./N	26.1/22	29.3/25	26.1/23	30.1/24		
DAY 14	MEAN	349.	332.	334.	353.		
	S.D./N	23.8/22	33.5/25	27.3/23	32.4/24		
DAY 21	MEAN	338.	328.	331.	346.		
	S.D./N	24.3/22	29.0/24	24.3/23	29.3/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 86 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF BODY WEIGHT CHANGES DURING LACTATION [G]

PAGE 1

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	14.	10.	10.	15.		
	S.D./N	12.5/22	8.6/25	11.7/23	8.6/24		
DAY	4- 7 MEAN	10.	6.	4.	6.		
	S.D./N	9.3/22	7.3/25	6.0/23	8.5/24		
DAY	7- 14 MEAN	23.	24.	22.	18.		
	S.D./N	10.2/22	9.3/25	11.8/23	12.7/24		
DAY	14- 21 MEAN	-11.	-6.	-3.	-8.		
	S.D./N	12.5/22	12.6/24	12.3/23	12.8/24		
DAY	1- 21 MEAN	36.	35.	34.	31.		
	S.D./N	16.8/22	14.4/24	16.8/23	15.2/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 MEAN DIFFERENCES CALCULATED FROM INDIVIDUAL DIFFERENCES

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 12/09/2002

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TABLE 87 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	23.	22.	22.*	23.
S.D.	2.6	3.2	3.2	2.7
N	30	30	30	30
141 TO 148				
MEAN	27.	25.**	24.**	25.
S.D.	2.7	2.8	3.2	2.5
N	30	30	30	30
148 TO 155				
MEAN	28.	26.**	25.**	26.*
S.D.	2.6	2.7	2.7	2.6
N	30	30	30	30
155 TO 162				
MEAN	28.	26.**	25.**	27.
S.D.	2.6	2.4	2.0	2.4
N	30	30	30	30
162 TO 169				
MEAN	28.	26.**	26.**	27.*
S.D.	2.4	2.4	2.3	2.6
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 87 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	28.	26.**	25.**	26.*
S.D.	2.4	2.3	2.1	2.5
N	30	30	30	30
176 TO 183				
MEAN	28.	25.**	25.**	26.*
S.D.	2.5	2.1	2.1	2.8
N	30	30	30	30
183 TO 190				
MEAN	27.	25.**	25.**	26.
S.D.	2.4	2.2	2.5	2.7
N	30	30	30	30
190 TO 197				
MEAN	27.	25.**	24.**	26.
S.D.	2.2	2.1	1.9	3.0
N	30	30	30	30
197 TO 204				
MEAN	26.	25.*	24.**	25.
S.D.	2.0	2.2	2.1	2.8
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 87 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
218 TO 225				
MEAN	27.	25.**	25.**	25.
S.D.	2.1	2.4	2.0	2.5
N	30	30	30	30
225 TO 232				
MEAN	26.	24.**	23.**	24.*
S.D.	2.2	2.1	1.8	2.7
N	30	30	30	30
232 TO 239				
MEAN	26.	24.**	24.*	24.
S.D.	1.9	2.2	1.9	2.8
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 87 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	26.	24.**	24.*	25.
S.D.	2.2	2.3	2.2	2.5
N	30	30	30	30
246 TO 253				
MEAN	24.	23.	23.	24.
S.D.	2.1	2.3	2.1	2.5
N	30	30	30	30
253 TO 260				
MEAN	24.	23.*	23.**	24.
S.D.	2.1	1.7	1.9	2.5
N	30	28	30	30
260 TO 266				
MEAN	25.	23.*	23.*	24.
S.D.	2.0	2.3	2.2	2.5
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 88 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	18.	18.	18.	18.
S.D.	1.5	1.9	1.9	1.6
N	30	30	30	30
141 TO 148				
MEAN	20.	19.	19.	18.**
S.D.	1.6	2.0	1.8	1.8
N	30	30	30	30
148 TO 155				
MEAN	20.	19.	19.	19.
S.D.	1.4	2.4	1.9	1.9
N	30	30	30	30
155 TO 162				
MEAN	20.	20.	20.	19.
S.D.	1.9	2.1	2.8	2.2
N	30	30	30	30
162 TO 169				
MEAN	21.	20.	20.	19.
S.D.	2.0	2.5	1.9	2.1
N	30	30	30	30

-----  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 88 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	20.	20.	20.	19.
S.D.	2.2	2.2	2.0	1.6
N	30	30	30	30
176 TO 183				
MEAN	20.	19.	19.	19.
S.D.	2.0	2.5	2.2	1.8
N	29	30	30	30
183 TO 190				
MEAN	20.	19.	19.	19.
S.D.	2.0	2.4	2.2	2.0
N	30	30	30	30
190 TO 197				
MEAN	19.	19.	18.	18.
S.D.	2.0	2.5	3.3	2.0
N	30	30	30	30
197 TO 204				
MEAN	19.	18.	19.	18.
S.D.	2.1	2.5	1.8	1.8
N	30	30	30	30

None significantly different from control group

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TABLE 88 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

---

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
218 TO 225				
MEAN	17.	18.	16.	14.
S.D.	0.0	0.7	4.5	4.3
N	1	2	4	5
225 TO 232				
MEAN	17.	20.	16.	19.
S.D.	0.0	2.8	1.0	2.2
N	1	2	3	5
232 TO 239				
MEAN	20.	18.	16.	17.
S.D.	1.0	1.4	1.4	1.2
N	3	2	4	6

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TABLE 88 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/ANIMAL/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	19.	18.	19.	18.
S.D.	1.8	1.9	3.0	0.8
N	8	5	7	6
246 TO 253				
MEAN	19.	18.	19.	18.
S.D.	1.8	2.6	1.8	1.7
N	8	6	7	6
253 TO 260				
MEAN	22.	21.	22.	22.
S.D.	3.9	3.0	3.2	5.3
N	26	29	27	28
260 TO 266				
MEAN	22.	20.	20.	20.
S.D.	3.1	3.1	2.3	2.8
N	30	30	30	30

None significantly different from control group

TABLE 89 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	129.	135.	129.	128.
S.D.	8.2	15.6	10.9	8.4
N	30	30	30	30
141 TO 148				
MEAN	100.	102.	97.	96.
S.D.	5.8	10.5	9.6	5.8
N	30	30	30	30
148 TO 155				
MEAN	87.	89.	85.	84.
S.D.	4.4	7.4	7.1	5.0
N	30	30	30	30
155 TO 162				
MEAN	77.	80.	77.	76.
S.D.	4.9	7.3	5.9	4.6
N	30	30	30	30
162 TO 169				
MEAN	72.	74.	72.	71.
S.D.	3.6	5.3	5.3	3.0
N	30	30	30	30

None significantly different from control group

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TABLE 89 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	66.	68.	67.	65.
S.D.	3.2	4.7	4.1	2.9
N	30	30	30	30
176 TO 183				
MEAN	63.	65.	63.	62.
S.D.	3.1	4.4	3.7	3.6
N	30	30	30	30
183 TO 190				
MEAN	59.	61.	61.	59.
S.D.	2.4	4.5	5.0	2.9
N	30	30	30	30
190 TO 197				
MEAN	57.	59.	57.	57.
S.D.	2.2	4.3	3.2	3.3
N	30	30	30	30
197 TO 204				
MEAN	54.	57.*	55.	54.
S.D.	1.9	3.6	3.8	3.2
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 89 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
218 TO 225				
MEAN	52.	53.	53.	51.
S.D.	2.7	4.5	3.1	3.6
N	30	30	30	30
225 TO 232				
MEAN	49.	51.	49.	48.
S.D.	2.9	3.9	3.4	4.1
N	30	30	30	30
232 TO 239				
MEAN	48.	50.	50.	48.
S.D.	3.0	3.8	3.0	3.6
N	30	30	30	30

None significantly different from control group

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TABLE 89 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	48.	50.	49.	48.
S.D.	2.6	4.1	3.0	5.3
N	30	30	30	30
246 TO 253				
MEAN	45.	47.	47.	45.
S.D.	2.4	3.7	2.7	3.2
N	30	30	30	30
253 TO 260				
MEAN	45.	46.	45.	46.
S.D.	2.8	3.7	2.4	5.3
N	30	28	30	30
260 TO 266				
MEAN	46.	47.	46.	45.
S.D.	3.3	4.8	2.9	3.6
N	30	30	30	30

None significantly different from control group

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TABLE 90 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	126.	133.	130.	118.*
S.D.	13.2	13.8	12.5	8.0
N	30	30	30	30
141 TO 148				
MEAN	104.	107.	107.	98.**
S.D.	7.3	8.5	8.6	4.5
N	30	30	30	30
148 TO 155				
MEAN	94.	98.	96.	90.*
S.D.	6.3	7.6	6.7	4.3
N	30	30	30	30
155 TO 162				
MEAN	88.	92.	92.	85.
S.D.	6.1	6.5	7.8	4.7
N	30	30	30	30
162 TO 169				
MEAN	85.	88.	85.	80.**
S.D.	6.3	7.0	5.1	4.7
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 90 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	80.	83.	81.	77.
S.D.	6.3	6.4	5.2	5.0
N	30	30	30	30
176 TO 183				
MEAN	77.	78.	77.	73.
S.D.	5.3	7.0	5.9	4.7
N	29	30	30	30
183 TO 190				
MEAN	75.	75.	74.	71.**
S.D.	5.4	5.8	5.9	5.1
N	30	30	30	30
190 TO 197				
MEAN	70.	73.	69.	67.
S.D.	6.4	6.0	9.0	5.5
N	30	30	30	30
197 TO 204				
MEAN	68.	69.	68.	65.
S.D.	4.7	5.0	5.7	5.9
N	30	30	30	30

-----  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 90 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

---

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
218 TO 225				
MEAN	52.	58.	53.	51.
S.D.	0.0	2.8	12.8	17.6
N	1	2	4	5
225 TO 232				
MEAN	54.	64.	58.	67.
S.D.	0.0	5.7	4.9	8.6
N	1	2	3	5
232 TO 239				
MEAN	63.	58.	55.	60.
S.D.	4.9	0.7	5.9	4.6
N	3	2	4	6

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TABLE 90 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF WEEKLY FOOD CONSUMPTION [G/KG/DAY]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	60.	62.	60.	62.
S.D.	3.7	4.7	5.0	10.8
N	8	5	7	6
246 TO 253				
MEAN	60.	62.	59.	63.
S.D.	4.5	5.6	2.0	11.8
N	8	6	7	6
253 TO 260				
MEAN	70.	71.	74.	68.
S.D.	11.1	7.5	11.4	11.7
N	26	29	27	28
260 TO 266				
MEAN	67.	67.	66.	62.*
S.D.	8.0	6.5	6.4	5.3
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

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TABLE 91 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	35.7	34.8	36.6	35.3
S.D.	2.76	3.49	3.83	2.66
N	30	30	30	30
141 TO 148				
MEAN	30.7	29.8	31.5	31.5
S.D.	2.37	3.01	4.81	2.90
N	30	30	30	30
148 TO 155				
MEAN	26.7	25.5	25.6	25.1
S.D.	3.94	3.76	3.32	3.74
N	30	30	30	30
155 TO 162				
MEAN	19.8	19.6	20.0	20.2
S.D.	2.48	4.22	3.93	3.62
N	30	30	30	30
162 TO 169				
MEAN	15.1	16.1	16.4	15.7
S.D.	2.93	2.68	4.00	2.79
N	30	30	30	30

None significantly different from control group

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TABLE 91 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	13.1	11.8	12.1	11.7
S.D.	2.45	2.62	3.25	4.31
N	30	30	30	30
176 TO 183				
MEAN	12.2	10.2	10.8	10.9
S.D.	2.18	2.65	2.92	3.90
N	30	30	30	30
183 TO 190				
MEAN	10.7	10.6	10.2	11.1
S.D.	2.28	2.85	3.99	2.31
N	30	30	30	30
190 TO 197				
MEAN	7.2	7.2	7.7	8.8
S.D.	2.37	2.50	3.37	3.89
N	30	30	30	30
197 TO 204				
MEAN	6.7	5.6	6.6	6.4
S.D.	2.61	2.75	4.04	3.54
N	30	30	30	30

None significantly different from control group

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TABLE 91 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	0 PPM	M A L E		1000 PPM	2500 PPM
		500 PPM			
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD				
218 TO 225					
MEAN	5.4	6.4	6.3	6.7	
S.D.	3.33	3.32	3.76	3.14	
N	30	30	30	30	
225 TO 232					
MEAN	3.1	2.0	1.8	1.6	
S.D.	4.28	3.98	5.04	8.65	
N	30	30	30	30	
232 TO 239					
MEAN	4.3	3.4	5.0	5.1	
S.D.	4.35	2.47	3.79	5.56	
N	30	30	30	30	

None significantly different from control group

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	5.8	5.2	6.5	5.8
S.D.	3.55	3.29	3.33	4.21
N	30	30	30	30
246 TO 253				
MEAN	-1.4	2.2**	2.7**	2.1*
S.D.	5.34	5.24	4.61	3.39
N	30	30	30	30
253 TO 260				
MEAN	2.8	4.0	2.1	2.0
S.D.	6.10	4.13	5.04	4.63
N	30	28	30	30
260 TO 266				
MEAN	1.7	3.5	2.2	3.4
S.D.	3.81	5.59	4.53	3.29
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 92 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 134 TO 141				
MEAN	25.1	23.4	24.5	22.3
S.D.	4.75	5.97	5.32	5.22
N	30	30	30	30
141 TO 148				
MEAN	18.9	19.5	19.6	19.5
S.D.	3.60	4.55	3.63	3.89
N	30	30	30	30
148 TO 155				
MEAN	15.6	16.1	16.2	15.1
S.D.	4.58	4.08	4.91	5.30
N	30	30	30	30
155 TO 162				
MEAN	11.9	12.1	13.3	12.7
S.D.	4.65	3.67	4.53	6.31
N	30	30	30	30
162 TO 169				
MEAN	9.4	10.4	9.7	10.8
S.D.	4.95	4.58	6.30	4.42
N	30	30	30	30

None significantly different from control group

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(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 169 TO 176				
MEAN	7.8	7.5	8.6	9.1
S.D.	5.36	4.57	3.82	4.43
N	30	30	30	30
176 TO 183				
MEAN	8.8	6.8	5.2**	6.3*
S.D.	4.08	3.14	3.51	4.44
N	29	30	30	30
183 TO 190				
MEAN	4.0	6.6	6.9	6.6
S.D.	5.40	3.79	4.29	4.94
N	30	30	30	30
190 TO 197				
MEAN	3.5	3.0	1.7	4.7
S.D.	5.09	4.15	12.20	4.25
N	30	30	30	30
197 TO 204				
MEAN	3.2	3.7	4.7	3.3
S.D.	4.61	4.23	5.74	5.24
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 92 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 204 TO 218	FOOD CONSUMPTION NOT RECORDED DURING BREEDING PERIOD			
218 TO 225				
MEAN	13.4	-0.5	-1.9	-12.2
S.D.	0.00	5.23	24.53	29.02
N	1	2	4	5
225 TO 232				
MEAN	-7.6	6.1	1.0	5.8
S.D.	0.00	5.94	5.06	4.59
N	1	2	3	5
232 TO 239				
MEAN	11.3	1.2	4.8	7.8
S.D.	3.56	1.63	8.07	5.80
N	3	2	4	6

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TABLE 92 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY

(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
DAY 239 TO 246				
MEAN	3.8	3.4	3.3	2.3
S.D.	5.11	4.11	3.55	5.95
N	8	5	7	6
246 TO 253				
MEAN	2.9	0.7	4.0	-0.3
S.D.	3.23	5.59	6.59	2.99
N	8	6	7	6
253 TO 260				
MEAN	-0.9	-0.1	-0.3	3.8
S.D.	9.78	7.34	9.47	6.18
N	26	26	26	27
260 TO 266				
MEAN	4.3	3.8	3.4	2.8
S.D.	4.99	5.59	4.38	5.14
N	29	30	30	30

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 SPONSOR:ACC

TABLE 93 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 1

GROUP :		1	2	3	4
DAY	0- 4 MEAN	20.	19.	19.	18.
	S.D./N	2.3/22	2.3/25	2.7/22	2.1/24
DAY	4- 7 MEAN	22.	21.	22.	21.
	S.D./N	2.9/22	2.7/25	5.5/22	2.6/24
DAY	7- 11 MEAN	23.	21.	23.	22.
	S.D./N	2.0/22	2.5/25	2.9/22	2.4/24
DAY	11- 14 MEAN	23.	22.	22.	21.
	S.D./N	2.5/22	3.6/25	2.7/22	2.3/24
DAY	14- 20 MEAN	23.	23.	23.	23.
	S.D./N	1.9/22	2.6/25	3.1/22	2.3/24
DAY	0- 20 MEAN	22.	21.	22.	21.
	S.D./N	2.0/22	2.3/25	2.7/22	2.0/24
1-	0 PPM	2-	500 PPM	3-	1000 PPM
				4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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 SPONSOR:ACC

TABLE 94 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PAGE 1

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	70.	70.	68.	63.**		
	S.D./N	5.9/22	9.6/25	8.4/22	6.7/24		
DAY	4- 7 MEAN	74.	74.	77.	69.		
	S.D./N	6.3/22	6.7/25	21.0/22	6.1/24		
DAY	7- 11 MEAN	72.	72.	75.	69.		
	S.D./N	4.5/22	5.5/25	7.1/22	5.4/24		
DAY	11- 14 MEAN	69.	70.	69.	64.*		
	S.D./N	4.7/22	10.3/25	5.6/22	5.4/24		
DAY	14- 20 MEAN	64.	65.	64.	61.		
	S.D./N	4.0/22	5.5/25	7.2/22	4.6/24		
DAY	0- 20 MEAN	69.	69.	69.	64.*		
	S.D./N	4.1/22	5.7/25	6.7/22	4.6/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 95 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

GROUP :		1	2	3	4		
DAY	0- 4 MEAN	24.8	21.7	21.9	23.2		
	S.D./N	7.66/22	6.88/25	8.62/22	6.88/24		
DAY	4- 7 MEAN	14.6	13.5	5.7	11.9		
	S.D./N	10.82/22	6.69/25	52.57/22	11.64/24		
DAY	7- 11 MEAN	21.0	20.7	21.6	24.4		
	S.D./N	7.70/22	5.28/25	11.85/22	7.99/24		
DAY	11- 14 MEAN	14.8	17.1	13.2	17.8		
	S.D./N	9.76/22	7.12/25	15.21/22	7.67/24		
DAY	14- 20 MEAN	44.1	49.9	49.1	50.4		
	S.D./N	11.02/22	7.63/25	8.79/22	11.14/24		
DAY	0- 20 MEAN	27.2	28.7	27.9	30.0		
	S.D./N	4.17/22	3.79/25	3.67/22	4.09/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group  
 NONGRAVID WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 96 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	33.	35.	33.	36.		
	S.D./N	5.6/22	12.5/25	6.9/23	5.8/24		
DAY	4- 7 MEAN	36.	34.	34.	36.		
	S.D./N	4.6/22	6.2/25	4.3/23	3.7/24		
DAY	7- 14 MEAN	48.	45.	45.	47.		
	S.D./N	6.4/22	6.3/25	4.4/23	5.2/24		
DAY	14- 21 MEAN	58.	53.*	53.*	53.*		
	S.D./N	5.2/22	6.3/24	4.7/22	6.4/24		
DAY	1- 21 MEAN	47.	45.	44.	46.		
	S.D./N	4.7/22	5.7/24	4.0/22	4.7/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

\* = Significantly different from the control group at 0.05 using Dunnett's test

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 97 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD CONSUMPTION DURING LACTATION [G/KG/DAY]

PAGE 1

GROUP :		1	2	3	4
DAY	1- 4 MEAN	106.	119.	108.	111.
	S.D./N	19.3/22	40.1/25	21.9/23	17.7/24
DAY	4- 7 MEAN	114.	110.	111.	110.
	S.D./N	14.6/22	18.1/25	13.5/23	9.6/24
DAY	7- 14 MEAN	142.	140.	141.	136.
	S.D./N	17.5/22	14.9/25	12.7/23	11.5/24
DAY	14- 21 MEAN	168.	161.	159.	152.**
	S.D./N	14.5/22	15.7/24	9.5/22	13.3/24
DAY	1- 21 MEAN	146.	144.	140.	137.
	S.D./N	14.4/22	15.1/24	10.0/22	11.2/24
1-	0 PPM	2-	500 PPM	3-	1000 PPM
				4-	2500 PPM

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 98 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

GROUP :		1	2	3	4		
DAY	1- 4 MEAN	13.8	9.2	9.0	13.9		
	S.D./N	12.78/22	9.74/25	12.39/23	8.43/24		
DAY	4- 7 MEAN	8.8	6.3	3.8	5.4		
	S.D./N	7.98/22	7.86/25	5.98/23	7.63/24		
DAY	7- 14 MEAN	6.9	7.4	7.0	5.3		
	S.D./N	3.04/22	2.52/25	3.74/23	3.82/24		
DAY	14- 21 MEAN	-2.7	-1.4	-0.4	-1.9		
	S.D./N	3.14/22	3.68/24	3.26/22	3.36/24		
DAY	1- 21 MEAN	3.8	3.9	3.8	3.4		
	S.D./N	1.75/22	1.57/24	1.82/22	1.55/24		
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

None significantly different from control group

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TABLE 99 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF GESTATION LENGTHS [DAYS]

PAGE 1

DOSE GROUP :		1	2	3	4
NO. OF ANIMALS		22	25	22	23
GESTATION LENGTH (DAYS)	MEAN	22.0	22.0	21.9	21.8
	S.D.	0.38	0.35	0.47	0.39
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM		

None significantly different from control group

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 100 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN.REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
 HTM-IVOS

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
LEFT TESTIS				
MEAN	81.6	95.8	93.1	90.3
S.D.	23.16	33.29	16.07	28.75
N	30	30	30	30
LEFT EPIDIDYMIS				
MEAN	434.0	422.2	445.7	388.7
S.D.	131.12	85.49	90.07	92.69
N	30	30	30	30

None significantly different from control group

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TABLE 101 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 1

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
LEFT TESTIS				
MEAN	13.4	16.3	15.3	14.8
S.D.	3.80	4.67	2.64	4.72
N	30	29	30	30

None significantly different from control group

SPERM PRODUCTION RATE =  $\frac{\text{NUMBER OF SPERM PER GRAM OF TISSUE}}{\text{6.1 DAYS}}$

6.1 DAYS = THE RATE OF TURNOVER OF THE GERMINAL EPITHELIUM

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TABLE 102 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 1

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
MOTILE SPERM				
MEAN	87.	85.	81.	85.
S.D.	10.5	10.1	20.5	10.3
N	27	29	30	30
PROGRESSIVE MOTILE SPERM				
MEAN	76.	75.	73.	76.
S.D.	12.5	11.0	20.0	11.0
N	27	29	30	30

None significantly different from control group

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TABLE 103 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
NORMAL				
MEAN	97.3	96.2	99.0	99.1
S.D.	1.12	18.19	1.50	2.00
N	29	30	30	30
NORMALLY SHAPED HEAD SEPARATED FROM FLAGELLUM				
MEAN	0.4	0.8	0.6	0.7
S.D.	0.48	2.57	1.18	1.74
N	29	30	30	30
HEAD ABSENT WITH NORMAL FLAGELLUM				
MEAN	0.3	3.0	0.4	0.3
S.D.	0.88	15.68	0.78	0.61
N	29	30	30	30
HEAD ABSENT WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
MISSHAPEN HEAD WITH NORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30

Percent of normal sperm not significantly different from control group

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TABLE 103 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 2

GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
-----				
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
-----				

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TABLE 104 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

GROUP:	0 PPM	M A L E 500 PPM	1000 PPM	2500 PPM
NORMAL				
MEAN	198.6	192.4	198.0	198.1
S.D.	2.25	36.37	3.00	4.00
N	29	30	30	30
NORMALLY SHAPED HEAD SEPARATED FROM FLAGELLUM				
MEAN	0.8	1.6	1.2	1.3
S.D.	0.97	5.13	2.35	3.49
N	29	30	30	30
HEAD ABSENT WITH NORMAL FLAGELLUM				
MEAN	0.6	6.0	0.8	0.6
S.D.	1.76	31.36	1.56	1.22
N	29	30	30	30
HEAD ABSENT WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
MISSHAPEN HEAD WITH NORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30

Percentage of normal sperm not significantly different from control group

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TABLE 104 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 2

---

GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
<hr/>				
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD				
MEAN	0.0	0.0	0.0	0.0
S.D.	0.00	0.00	0.00	0.00
N	29	30	30	30

---

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TABLE 105 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

SCHEDULED NECROPSY

GROUP	M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
KIDNEYS				
-AREA(S), DEPRESSED	2	2	4	1
-DILATED PELVIS	1	2	2	0
LYMPH NODE, MAND				
-DISCOLORATION, DARK RED	2	2	2	1
-ENLARGED	1	0	2	0
LUNGS				
-AREA(S), DARK RED	2	2	0	1
-AREA(S), WHITE	0	0	1	0
PITUITARY				
-PALE	1	3	0	0
-DISCOLORATION, DARK RED	0	0	0	1
SKIN				
-HAIR LOSS	1	0	0	0
SEMINAL VESICLES				
-SMALL	0	1	0	0
THYMUS				
-SMALL	0	0	0	1
URINARY BLADDER				
-CONTENTS, RED FLUID	0	1	0	0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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TABLE 105 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 2

SCHEDULED NECROPSY

GROUP	M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
RIGHT TESTIS				
-SOFT	1	0	0	1
-SMALL	1	1	0	0
LEFT TESTIS				
-SMALL	1	1	0	1
-SOFT	1	0	0	1
LEFT EPIDIDYMIS				
-SMALL	1	1	0	1
-SOFT	1	0	0	0
RIGHT EPIDIDYMIS				
-SMALL	1	1	0	0
-SOFT	1	0	0	0
TEETH				
-MALALIGNED	0	1	1	0
EAR(S)				
-SWOLLEN	0	0	0	1
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	23	18	21	25
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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TABLE 106 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

SCHEDULED NECROPSY

GROUP	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
EAR(S)				
-SWOLLEN	0	0	0	2
KIDNEYS				
-AREA(S), DEPRESSED	1	1	1	3
LYMPH NODE, MAND				
-DISCOLORATION, DARK RED	2	1	1	3
LUNGS				
-AREA(S), DARK RED	0	1	0	2
OVIDUCTS				
-CYST(S)	0	1	0	0
OVARIES				
-CYST(S)	0	0	0	1
-SMALL	0	0	0	1
PITUITARY				
-DISCOLORATION, DARK RED	0	0	0	1
TEETH				
-MALALIGNED	1	0	0	0
SPLEEN				
-AREA(S), WHITE	0	0	0	1
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	

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TABLE 106 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 2

SCHEDULED NECROPSY

GROUP	F E M A L E			
	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	30	30	30	30
THYMUS -ENLARGED	0	0	1	0
UTERUS -ENLARGED	0	0	0	1
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	26	26	27	16

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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TABLE 107 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF IMPLANTATION SITES

PAGE 1

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
IMPLANTATION SITES				
MEAN	14.2	14.9	14.7	15.0
S.D.	2.98	2.82	2.21	2.27
N	22	25	23	24
NUMBER BORN				
MEAN	13.1	13.9	13.9	14.2
S.D.	3.14	2.69	2.11	2.41
N	22	25	23	24
UNACCOUNTED SITES				
MEAN	1.2	1.0	0.7	0.8
S.D.	2.38	1.06	0.86	1.27
N	21	25	23	24
-----				

None significantly different from control group

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	2.10	2.05		2.07	2.05
	S.D.	0.124	0.135		0.123	0.096
	N	30	30		30	30
LIVER (G)						
	MEAN	19.11	17.16*		17.68	18.30
	S.D.	2.341	2.564		2.660	3.000
	N	30	30		30	30
KIDNEYS (G)						
	MEAN	3.65	3.42		3.42	3.62
	S.D.	0.320	0.472		0.466	0.386
	N	30	30		30	30
SPLEEN (G)						
	MEAN	0.85	0.78		0.81	0.82
	S.D.	0.117	0.060		0.097	0.137
	N	30	30		30	30
SEM VES/CG/FLUID (G)						
	MEAN	2.30	2.27		2.24	2.30
	S.D.	0.489	0.324		0.369	0.363
	N	30	30		30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
PROSTATE (G)				
MEAN	1.17	1.17	1.14	1.19
S.D.	0.280	0.244	0.252	0.244
N	30	30	30	30
RIGHT TESTIS (G)				
MEAN	1.79	1.67	1.70	1.76
S.D.	0.272	0.281	0.149	0.121
N	30	30	30	30
LEFT TESTIS (G)				
MEAN	1.80	1.69	1.69	1.73
S.D.	0.241	0.246	0.156	0.172
N	30	30	30	30
RIGHT EPIDIDYMIS (G)				
MEAN	0.73	0.70	0.70	0.71
S.D.	0.085	0.093	0.066	0.083
N	30	30	30	30
LEFT EPIDIDYMIS (G)				
MEAN	0.73	0.70	0.68	0.71
S.D.	0.089	0.093	0.058	0.100
N	30	30	30	30

None significantly different from control group

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
RIGHT CAUDA EPID (G)				
MEAN	0.3194	0.3116	0.3031	0.3085
S.D.	0.04546	0.05046	0.04349	0.04478
N	30	30	30	30
LEFT CAUDA EPID (G)				
MEAN	0.3226	0.3207	0.3170	0.3205
S.D.	0.04730	0.05848	0.03748	0.05332
N	30	30	30	30
THYMUS (G)				
MEAN	0.2255	0.2646	0.2292	0.2257
S.D.	0.06048	0.07245	0.05582	0.06747
N	30	30	30	30
ADRENAL GLANDS (G)				
MEAN	0.0580	0.0589	0.0572	0.0578
S.D.	0.01129	0.00828	0.00934	0.01106
N	30	30	30	30
PITUITARY (G)				
MEAN	0.0159	0.0148	0.0152	0.0156
S.D.	0.00190	0.00226	0.00284	0.00241
N	30	30	30	30

None significantly different from control group

TABLE 109 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	1.94	1.89		1.90	1.95
	S.D.	0.096	0.114		0.089	0.091
	N	30	30		30	30
LIVER (G)						
	MEAN	11.30	10.92		11.28	11.06
	S.D.	1.249	1.629		1.499	1.493
	N	30	30		30	30
KIDNEYS (G)						
	MEAN	2.08	2.01		2.05	2.08
	S.D.	0.159	0.224		0.202	0.210
	N	30	30		30	30
SPLEEN (G)						
	MEAN	0.61	0.58		0.58	0.61
	S.D.	0.075	0.108		0.083	0.086
	N	30	30		30	30
UTERUS/CX/OD (G)						
	MEAN	0.72	0.75		0.70	0.80
	S.D.	0.196	0.211		0.252	0.248
	N	30	30		30	30

None significantly different from control group

TABLE 109 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

----- F E M A L E -----					
GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM	
THYMUS (G)					
MEAN	0.2771	0.2962	0.2876	0.2847	
S.D.	0.07623	0.08088	0.08125	0.08177	
N	30	30	30	30	
OVARIES (G)					
MEAN	0.1125	0.1114	0.1100	0.1192	
S.D.	0.02624	0.02347	0.01875	0.04263	
N	30	30	30	30	
ADRENAL GLANDS (G)					
MEAN	0.0724	0.0712	0.0667	0.0741	
S.D.	0.00956	0.01233	0.00911	0.01092	
N	30	30	30	30	
PITUITARY (G)					
MEAN	0.0199	0.0169**	0.0168**	0.0183	
S.D.	0.00337	0.00310	0.00342	0.00368	
N	30	30	30	30	

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
FINAL BODY WT (G)				
MEAN	547.	501.**	510.*	534.
S.D.	44.5	50.4	53.6	68.4
N	30	30	30	30
BRAIN				
MEAN	0.386	0.411*	0.409	0.391
S.D.	0.0371	0.0340	0.0408	0.0492
N	30	30	30	30
LIVER				
MEAN	3.498	3.428	3.464	3.428
S.D.	0.3657	0.3743	0.3321	0.3272
N	30	30	30	30
KIDNEYS				
MEAN	0.670	0.684	0.670	0.683
S.D.	0.0511	0.0686	0.0603	0.0750
N	30	30	30	30
SPLEEN				
MEAN	0.156	0.157	0.159	0.155
S.D.	0.0198	0.0166	0.0175	0.0228
N	30	30	30	30

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
SEM VES/CG/FLUID				
MEAN	0.425	0.457	0.445	0.442
S.D.	0.1005	0.0731	0.0885	0.1045
N	30	30	30	30
PROSTATE				
MEAN	0.215	0.234	0.224	0.227
S.D.	0.0546	0.0476	0.0478	0.0588
N	30	30	30	30
RIGHT TESTIS				
MEAN	0.330	0.334	0.335	0.334
S.D.	0.0540	0.0523	0.0276	0.0467
N	30	30	30	30
LEFT TESTIS				
MEAN	0.331	0.338	0.333	0.328
S.D.	0.0509	0.0428	0.0296	0.0396
N	30	30	30	30
RIGHT EPIDIDYMIS				
MEAN	0.135	0.140	0.137	0.134
S.D.	0.0192	0.0165	0.0144	0.0170
N	30	30	30	30

None significantly different from control group

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GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
LEFT EPIDIDYMIS				
MEAN	0.134	0.141	0.135	0.134
S.D.	0.0184	0.0159	0.0157	0.0182
N	30	30	30	30
RIGHT CAUDA EPID				
MEAN	0.059	0.062	0.060	0.058
S.D.	0.0096	0.0090	0.0095	0.0097
N	30	30	30	30
LEFT CAUDA EPID				
MEAN	0.059	0.064	0.063	0.061
S.D.	0.0099	0.0104	0.0091	0.0114
N	30	30	30	30
THYMUS				
MEAN	0.041	0.053**	0.045	0.042
S.D.	0.0118	0.0151	0.0115	0.0124
N	30	30	30	30
ADRENAL GLANDS				
MEAN	0.011	0.012	0.011	0.011
S.D.	0.0022	0.0017	0.0019	0.0021
N	30	30	30	30

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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SPONSOR:ACC

TABLE 110 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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GROUP:	0 PPM	----- M A L E ----- 500 PPM	1000 PPM	2500 PPM
PITUITARY				
MEAN	0.003	0.003	0.003	0.003
S.D.	0.0004	0.0006	0.0005	0.0004
N	30	30	30	30

---

None significantly different from control group

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TABLE 111 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
-----						
FINAL BODY WT (G)	MEAN	321.	303.		310.	320.
	S.D.	25.0	34.5		25.6	33.7
	N	30	30		30	30
BRAIN	MEAN	0.606	0.629		0.615	0.613
	S.D.	0.0438	0.0568		0.0536	0.0538
	N	30	30		30	30
LIVER	MEAN	3.517	3.599		3.642	3.462
	S.D.	0.3175	0.3580		0.4046	0.3366
	N	30	30		30	30
KIDNEYS	MEAN	0.649	0.664		0.662	0.652
	S.D.	0.0544	0.0505		0.0460	0.0545
	N	30	30		30	30
SPLEEN	MEAN	0.190	0.191		0.188	0.194
	S.D.	0.0242	0.0258		0.0244	0.0318
	N	30	30		30	30

-----  
 None significantly different from control group

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TABLE 111 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

----- F E M A L E -----					
GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM	
UTERUS/CX/OD					
MEAN	0.224	0.249	0.227	0.252	
S.D.	0.0625	0.0697	0.0854	0.0825	
N	30	30	30	30	
THYMUS					
MEAN	0.087	0.098	0.093	0.089	
S.D.	0.0256	0.0272	0.0280	0.0259	
N	30	30	30	30	
OVARIES					
MEAN	0.035	0.037	0.036	0.037	
S.D.	0.0089	0.0076	0.0061	0.0113	
N	30	30	30	30	
ADRENAL GLANDS					
MEAN	0.023	0.024	0.022	0.023	
S.D.	0.0036	0.0037	0.0031	0.0036	
N	30	30	30	30	
PITUITARY					
MEAN	0.006	0.006	0.006	0.006	
S.D.	0.0010	0.0010	0.0011	0.0013	
N	30	30	30	30	

None significantly different from control group

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PROJECT NO.:WIL-186013A  
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TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 1

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
ADRENAL CORTEX				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	14	4	6	16
-VACUOLATION, CYTOPLASMIC	4	1	1	0
MINIMAL	4	1	1	NONE
ADRENAL MEDULLA				
TOTAL NUMBER EXAMINED	18	5	7	15
EXAMINED, UNREMARKABLE	18	5	7	15
NOT EXAMINED	0	0	0	1
BRAIN				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	18	5	7	15
-INFILTRATE, MONONUCLEAR	0	0	0	1
MINIMAL	NONE	NONE	NONE	1
KIDNEYS				
TOTAL NUMBER EXAMINED	18	8	12	17
EXAMINED, UNREMARKABLE	0	1	3	3
-INFLAMMATION, SUBACUTE	16	6	9	10
MINIMAL	16	6	9	10
-BASOPHILIC TUBULES	11	3	4	11
MINIMAL	9	3	4	10
MILD	2	NONE	NONE	1

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1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PROJECT NO.:WIL-186013A  
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TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 2

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
KIDNEYS - CONTINUED				
-HYDRONEPHROSIS	1	2	2	0
MINIMAL	NONE	1	NONE	NONE
MILD	1	1	2	NONE
-DILATATION, TUBULAR	6	2	2	4
MINIMAL	5	1	2	3
MILD	1	1	NONE	1
-MINERALIZATION	2	1	0	0
MINIMAL	2	1	NONE	NONE
-HYPERPLASIA, TUBULAR	0	1	0	0
MILD	NONE	1	NONE	NONE
LYMPH NODE, MAND				
TOTAL NUMBER EXAMINED	2	2	3	1
EXAMINED, UNREMARKABLE	0	0	0	0
-HEMORRHAGE	2	2	3	1
MINIMAL	NA	NA	1	NA
MILD	1	NA	1	1
MODERATE	1	2	1	NA
-PLASMACYTOSIS, MEDULLARY	0	0	1	0
MILD	NA	NA	1	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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 SPONSOR:ACC

TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 3

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
LIVER				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	3	1	1	1
-INFILTRATE, MONONUCLEAR	15	4	6	15
MINIMAL	15	4	6	15
-NECROSIS, HEPATOCELLULAR	2	0	2	2
MINIMAL	2	NONE	2	2
-HYPERPLASIA, BILE DUCT	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
LUNGS				
TOTAL NUMBER EXAMINED	2	2	1	1
EXAMINED, UNREMARKABLE	0	0	0	0
-INFILTRATE, MONONUCLEAR, SUBPLEURAL	1	0	1	1
MINIMAL	1	NA	1	1
-MACROPHAGES, ALVEOLAR	0	1	0	1
MINIMAL	NA	1	NA	1
-INFILTRATE, MONONUCLEAR, PERIVASCULAR	1	1	0	0
MINIMAL	1	1	NA	NA
-HEMORRHAGE	1	1	0	0
MINIMAL	1	1	NA	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 4

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
PITUITARY				
TOTAL NUMBER EXAMINED	18	7	7	17
EXAMINED, UNREMARKABLE	16	5	7	14
-CYST, PARS DISTALIS	1	0	0	1
MINIMAL	NONE	NONE	NONE	1
MILD	1	NONE	NONE	NONE
-#B ADENOMA, PARS DISTALIS	0	0	0	1
PRESENT	NONE	NONE	NONE	1
-VACUOLATION, PARS DISTALIS	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
-CYST, PARS INTERMEDIA	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
-ANGIECTASIS	1	0	0	1
MINIMAL	1	NONE	NONE	1
PROSTATE				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	3	0	2	8
-INFILTRATE, LYMPHOCYTE	10	3	4	5
MINIMAL	9	2	4	4
MILD	1	1	NONE	1
-INFLAMMATION, SUBACUTE	5	2	1	3
MINIMAL	3	2	1	3
MILD	2	NONE	NONE	NONE

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 # = NEOPLASM, B = BENIGN

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 SPONSOR:ACC

TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 5

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
PROSTATE - CONTINUED				
-NECROSIS	0	0	1	0
MINIMAL	NONE	NONE	1	NONE
-HYPERPLASIA	0	0	1	0
MINIMAL	NONE	NONE	1	NONE
SKIN				
TOTAL NUMBER EXAMINED	NA	NA	NA	NA
EXAMINED, UNREMARKABLE	NA	NA	NA	NA
NOT EXAMINED	1	NA	NA	NA
SPLEEN				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	18	5	7	16
SEMINAL VESICLES				
TOTAL NUMBER EXAMINED	18	6	7	16
EXAMINED, UNREMARKABLE	18	5	7	16
-DECREASED SECRETION	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
THYMUS				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	9	4	3	3
-HEMORRHAGE	9	1	4	12
MINIMAL	7	1	3	10
MILD	2	NONE	1	2

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 6

----- MALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
THYMUS - CONTINUED				
-DEPLETION, LYMPHOID MILD	0 NONE	0 NONE	0 NONE	1 1
URINARY BLADDER				
TOTAL NUMBER EXAMINED	NA	1	NA	NA
EXAMINED, UNREMARKABLE	NA	1	NA	NA
RIGHT TESTIS				
TOTAL NUMBER EXAMINED	18	6	7	16
EXAMINED, UNREMARKABLE	17	5	6	15
-DEGENERATION, SEMINIFEROUS TUBULES	1	1	1	1
MINIMAL	NONE	NONE	1	NONE
SEVERE	1	1	NONE	1
-GIANT CELL MODERATE	0	0	0	1
-GRANULOMA, SPERM MILD	NONE	NONE	NONE	1
	0	0	0	1
	NONE	NONE	NONE	1
RIGHT EPIDIDYMIS				
TOTAL NUMBER EXAMINED	18	6	7	16
EXAMINED, UNREMARKABLE	14	5	6	13
-INFILTRATE, LYMPHOCYTE	2	0	0	2
MINIMAL	2	NONE	NONE	2

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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 SPONSOR:ACC

TABLE 112 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 7

----- MALE -----				
GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	19	14	15	20
RIGHT EPIDIDYMIS - CONTINUED				
-HYOSPERMIA	1	1	0	1
MODERATE	NONE	NONE	NONE	1
SEVERE	1	1	NONE	NONE
-CELLULAR DEBRIS	0	1	1	1
MINIMAL	NONE	NONE	1	1
MILD	NONE	1	NONE	NONE
-VACUOLATION	1	0	0	0
MILD	1	NONE	NONE	NONE
COAGULATING GL				
TOTAL NUMBER EXAMINED	18	5	7	16
EXAMINED, UNREMARKABLE	18	5	7	16
EAR(S)				
TOTAL NUMBER EXAMINED	NA	NA	NA	1
EXAMINED, UNREMARKABLE	NA	NA	NA	0
-CHONDROPATHY, AURICULAR	NA	NA	NA	1
MODERATE	NA	NA	NA	1
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
NA = NOT APPLICABLE				

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PHSI2v4.17  
 07/08/2003

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 1

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	22	8	9	22
ADRENAL CORTEX				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	22	5	7	16
ADRENAL MEDULLA				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	22	5	7	16
BRAIN				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	22	5	7	15
-DILATATION, VENTRICLE	0	0	0	1
MILD	NONE	NONE	NONE	1
EAR(S)				
TOTAL NUMBER EXAMINED	NA	NA	NA	2
EXAMINED, UNREMARKABLE	NA	NA	NA	0
-CHONDROPATHY, AURICULAR	NA	NA	NA	2
MILD	NA	NA	NA	1
MODERATE	NA	NA	NA	1
KIDNEYS				
TOTAL NUMBER EXAMINED	22	6	7	18
EXAMINED, UNREMARKABLE	3	3	1	6
-BASOPHILIC TUBULES	7	1	2	7
MINIMAL	7	1	2	7
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
NA = NOT APPLICABLE				

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TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

----- FEMALE -----

	GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP		30	30	30	30
NUMBER OF ANIMALS EXAMINED		22	8	9	22
KIDNEYS - CONTINUED					
-INFLAMMATION, SUBACUTE		8	2	3	11
MINIMAL		7	2	3	11
MILD		1	NONE	NONE	NONE
-MINERALIZATION, TUBULAR		8	1	1	3
MINIMAL		5	1	1	2
MILD		3	NONE	NONE	1
-HYPERPLASIA, TRANSITIONAL CELL		1	0	1	0
MINIMAL		1	NONE	1	NONE
-DILATATION, TUBULAR		2	0	1	1
MINIMAL		1	NONE	1	NONE
MILD		1	NONE	NONE	1
-MINERALIZATION, PELVIC		0	1	1	0
MINIMAL		NONE	1	1	NONE
-FIBROSIS, INTERSTITIAL		1	0	0	0
MILD		1	NONE	NONE	NONE
LYMPH NODE, MAND					
TOTAL NUMBER EXAMINED		2	1	1	3
EXAMINED, UNREMARKABLE		0	0	0	0
-HEMORRHAGE		2	1	1	3
MILD		2	1	1	3
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM		

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TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 3

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	22	8	9	22
LIVER				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	3	1	2	1
-INFILTRATE, MONONUCLEAR	19	4	5	15
MINIMAL	19	4	5	15
-FIBROSIS, BILE DUCTS	1	0	0	0
MILD	1	NONE	NONE	NONE
-KARYOMEGALY	0	0	0	1
MINIMAL	NONE	NONE	NONE	1
-NECROSIS, HEPATOCELLULAR	0	1	0	0
MINIMAL	NONE	1	NONE	NONE
-PIGMENT	1	0	0	0
MINIMAL	1	NONE	NONE	NONE
LUNGS				
TOTAL NUMBER EXAMINED	NA	1	NA	2
EXAMINED, UNREMARKABLE	NA	0	NA	0
-HEMORRHAGE	NA	1	NA	2
MINIMAL	NA	1	NA	1
MILD	NA	NA	NA	1
-INFLAMMATION, SUBACUTE	NA	0	NA	1
MILD	NA	NA	NA	1
-INFILTRATE, MONONUCLEAR, SUBPLEURAL	NA	1	NA	0
MINIMAL	NA	1	NA	NA

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
 NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 4

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	22	8	9	22
OVIDUCTS				
TOTAL NUMBER EXAMINED	22	6	7	16
EXAMINED, UNREMARKABLE	22	5	7	16
-CYST	0	1	0	0
MILD	NONE	1	NONE	NONE
OVARIES				
TOTAL NUMBER EXAMINED	22	5	7	17
EXAMINED, UNREMARKABLE	19	3	5	14
-CYST	1	2	1	2
MINIMAL	1	1	1	NONE
MILD	NONE	1	NONE	1
SEVERE	NONE	NONE	NONE	1
-DECREASED CORPORA LUTEA	2	0	1	1
MILD	1	NONE	NONE	NONE
MODERATE	1	NONE	1	NONE
SEVERE	NONE	NONE	NONE	1
PITUITARY				
TOTAL NUMBER EXAMINED	22	5	7	17
EXAMINED, UNREMARKABLE	22	5	7	15
-CYST, PARS DISTALIS	0	0	0	2
MINIMAL	NONE	NONE	NONE	1
MILD	NONE	NONE	NONE	1

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1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 5

----- FEMALE -----

GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30
NUMBER OF ANIMALS EXAMINED	22	8	9	22
SPLEEN				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	22	5	7	15
-FIBROSIS, CAPSULAR	0	0	0	1
MILD	NONE	NONE	NONE	1
THYMUS				
TOTAL NUMBER EXAMINED	22	5	8	16
EXAMINED, UNREMARKABLE	7	1	0	4
-HEMORRHAGE	15	4	8	12
MINIMAL	14	4	7	9
MILD	1	NONE	1	3
UTERUS				
TOTAL NUMBER EXAMINED	22	5	7	16
EXAMINED, UNREMARKABLE	16	5	7	9
-DILATATION, LUMEN	3	0	0	3
MINIMAL	3	NONE	NONE	NONE
MILD	NONE	NONE	NONE	3
-IMPLANTATION SITE	5	0	0	5
PRESENT	5	NONE	NONE	5

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 113 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MICROSCOPIC FINDINGS

PAGE 6

----- FEMALE -----

	GROUP:	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP		30	30	30	30
NUMBER OF ANIMALS EXAMINED		22	8	9	22
VAGINA					
TOTAL NUMBER EXAMINED		22	5	7	16
EXAMINED, UNREMARKABLE		21	5	7	16
-INFILTRATE, MONONUCLEAR		1	0	0	0
MINIMAL		1	NONE	NONE	NONE
CERVIX					
TOTAL NUMBER EXAMINED		22	5	7	16
EXAMINED, UNREMARKABLE		22	5	7	16

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 114 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF OVARIAN PRIMORDIAL FOLLICLE COUNTS AND CORPORA LUTEA COUNTS

PAGE 1

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
PRIMORDIAL FOLLICLES				
MEAN	114.6	NA	NA	124.2
S.D.	45.40			38.53
N	30			30
CORPORA LUTEA				
MEAN	158.3	NA	NA	176.6
S.D.	58.42			54.66
N	30			30

Mean primordial follicle count not significantly different from control group  
NA = NOT APPLICABLE

MANUALv1.0  
10/31/2002  
R:12/09/2002

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 115 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF PND 0 LITTER DATA

PAGE 1

GROUP :	1	2	3	4
NUMBER BORN				
MEAN	13.1	13.9	13.9	14.2
S.D.	3.14	2.69	2.11	2.41
N	22	25	23	24
SEX AT BIRTH (% MALES PER LITTER)				
MEAN	46.9	54.6	47.8	52.9
S.D.	12.58	13.61	12.55	9.27
N	22	25	23	24
LIVE LITTER SIZE (PND 0)				
MEAN	13.0	13.9	13.7	13.9
S.D.	3.19	2.69	2.09	2.54
N	22	25	23	24

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM  
SEX COMPARED USING KRUSKAL-WALLIS, NUMBER BORN, AND LIVE LITTER SIZE COMPARED USING DUNNETT'S

None significantly different from control group

PPVIASv5.01  
12/09/2002

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GROUP :	1	2	3	4
-----				
PND 0 (RELATIVE TO NUMBER BORN)				
MEAN	98.8	100.0	98.7	98.1
S.D.	3.24	0.00	3.06	4.33
N	22	25	23	24
PND 0 TO PND 1				
MEAN	99.4	99.1	98.8	99.4
S.D.	2.03	2.38	3.30	2.10
N	22	25	23	24
PND 1 TO PND 4 (PRE-SELECTION)				
MEAN	99.7	98.6	99.1	100.0
S.D.	1.42	3.30	2.43	0.00
N	22	25	23	24
PND 4 (POST-SELECTION) TO PND 7				
MEAN	100.0	97.9	99.5	99.0
S.D.	0.00	8.28	2.61	3.53
N	22	25	23	24
PND 7 TO PND 14				
MEAN	100.0	95.4	99.5	99.5
S.D.	0.00	20.08	2.61	2.55
N	22	25	23	24
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
-----				

None significantly different from control group

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SPONSOR:ACC

TABLE 116 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF POSTNATAL SURVIVAL [% PER LITTER]

PAGE 2

GROUP :	1	2	3	4
-----				
PND 14 TO PND 21				
MEAN	99.4	100.0	99.5	100.0
S.D.	2.67	0.00	2.61	0.00
N	22	24	23	24
BIRTH TO PND 4 (PRE-SELECTION)				
MEAN	97.9	97.8	96.7	97.5
S.D.	3.73	4.20	5.84	4.93
N	22	25	23	24
PND 4 (POST-SELECTION) TO PND 21				
MEAN	99.4	95.0	98.4	98.4
S.D.	2.67	20.41	4.30	4.22
N	22	25	23	24
-----				
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM	
STATISTICS PERFORMED USING KRUSKAL-WALLIS				
-----				

None significantly different from control group

PPVIASv5.01  
12/09/2002

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ALL OBSERVATION PERIODS  
 TOTAL NUMBER OF FINDINGS/NUMBER OF PUPS WITH FINDING

FINDING	GROUP :	1	2	3	4		
-----							
NORMAL							
NO REMARKABLE OBSERVATIONS		1068/284	1247/344	1139/311	1229/331		
DISPOSITION							
FOUND DEAD		6/ 6	11/ 11	10/ 10	10/ 10		
SCHEDULED EUTHANASIA (PND 21)		169/169	190/190	181/181	189/189		
CULLED ON SCHEDULED DAY (PND 4)		113/113	143/143	125/125	140/140		
MISSING		1/ 1	4/ 4	4/ 4	1/ 1		
BODY/INTEGUMENT							
SMALL IN SIZE		5/ 2	10/ 6	12/ 9	1/ 1		
SUBCUTANEOUS HEMORRHAGE(S)		0/ 0	0/ 0	3/ 3	0/ 0		
FILAMENTOUS TAIL		0/ 0	0/ 0	6/ 2	0/ 0		
SCABBING		1/ 1	1/ 1	0/ 0	0/ 0		
TAIL ABSENT		0/ 0	0/ 0	5/ 1	0/ 0		
DEHYDRATED		1/ 1	0/ 0	0/ 0	1/ 1		
PALE IN COLOR		0/ 0	0/ 0	1/ 1	1/ 1		
LACERATION(S)		1/ 1	0/ 0	0/ 0	0/ 0		
UNEVEN HAIR GROWTH		2/ 1	0/ 0	0/ 0	0/ 0		
SCAR ON LEFT LATERAL THORACIC AREA		0/ 0	0/ 0	1/ 1	0/ 0		
HAIR LOSS		0/ 0	2/ 2	2/ 1	0/ 0		
CARDIO-PULMONARY							
LABORED RESPIRATION		0/ 0	0/ 0	0/ 0	2/ 2		
ORAL/DENTAL							
SWOLLEN LEFT CORNER OF MOUTH		1/ 1	0/ 0	0/ 0	0/ 0		
-----							
1-	0 PPM	2-	500 PPM	3-	1000 PPM	4-	2500 PPM

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TABLE 117 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF PUP CLINICAL OBSERVATIONS

PAGE 2

ALL OBSERVATION PERIODS  
TOTAL NUMBER OF FINDINGS/NUMBER OF PUPS WITH FINDING

FINDING	GROUP :	1	2	3	4
ORAL/DENTAL					
SWOLLEN RIGHT CORNER OF MOUTH		0/ 0	0/ 0	1/ 1	0/ 0
SCAR ON UPPER RIGHT LIP		0/ 0	0/ 0	2/ 1	0/ 0

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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12/09/2002

DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
(LITTER AS EXPERIMENTAL UNIT)					
-----					
PND 1					
MALES	MEAN	7.3	6.8*	6.8*	7.1
	S.D.	0.82	0.53	0.66	0.65
	N	22	25	23	24
FEMALES	MEAN	6.9	6.3*	6.4*	6.6
	S.D.	0.87	0.50	0.61	0.64
	N	22	25	23	24
PND 4 (BEFORE SELECTION)					
MALES	MEAN	10.4	9.2**	9.6	10.3
	S.D.	1.50	1.14	1.08	1.05
	N	22	25	23	24
FEMALES	MEAN	9.8	8.6**	9.1	9.6
	S.D.	1.59	1.06	1.10	1.08
	N	22	25	23	24
PND 7					
MALES	MEAN	14.6	12.1**	13.3	14.4
	S.D.	1.96	2.06	1.88	1.62
	N	22	25	23	24
FEMALES	MEAN	13.9	11.8**	12.6*	13.6
	S.D.	2.18	1.93	1.76	1.34
	N	22	25	23	24
-----					

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Student's T-test

\*\* = Significantly different from the control group at 0.01 using Student's T-test

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TABLE 118 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF OFFSPRING WEIGHTS [G]

PAGE 2

DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
-----					
PND 14					
MALES	MEAN	27.3	24.2**	25.2	26.0
	S.D.	3.43	3.26	2.89	2.97
	N	22	24	23	24
FEMALES	MEAN	26.2	23.6*	24.0	24.6
	S.D.	3.89	3.23	2.88	2.60
	N	22	24	23	24
PND 21					
MALES	MEAN	43.9	36.8**	37.5**	39.2*
	S.D.	6.47	6.08	5.58	5.82
	N	22	24	23	24
FEMALES	MEAN	41.9	35.8**	35.8**	37.2*
	S.D.	6.64	5.85	4.69	4.90
	N	22	24	23	24
-----					

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Student's T-test

\*\* = Significantly different from the control group at 0.01 using Student's T-test

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09/04/2002  
R:12/05/2002

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DOSE GROUP:		0 PPM	500 PPM	1000 PPM	2500 PPM
(LITTER AS EXPERIMENTAL UNIT)					
PND 1 TO 4	(BEFORE SELECTION)				
MALES	MEAN	3.1	2.4*	2.8	3.2
	S.D.	0.83	0.94	0.64	0.62
	N	22	25	23	24
FEMALES	MEAN	2.9	2.3*	2.7	3.0
	S.D.	0.87	0.86	0.67	0.60
	N	22	25	23	24
PND 4 TO 7					
MALES	MEAN	4.2	2.9**	3.8	4.0
	S.D.	0.98	1.20	1.07	0.99
	N	22	25	23	24
FEMALES	MEAN	4.0	3.0**	3.5	3.9
	S.D.	1.08	1.10	0.95	0.85
	N	22	25	23	24
PND 7 TO 14					
MALES	MEAN	12.7	11.9	11.9	11.5
	S.D.	2.20	1.74	1.60	1.88
	N	22	24	23	24
FEMALES	MEAN	12.3	11.6	11.5	11.1
	S.D.	2.26	1.99	1.69	1.70
	N	22	24	23	24

PND = POSTNATAL DAY

\* = Significantly different from the control group at 0.05 using Dunnett's test

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 119 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
SUMMARY OF OFFSPRING WEIGHT CHANGES [G]

PAGE 2

(LITTER AS EXPERIMENTAL UNIT)

DOSE GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
-----				
PND 14 TO 21				
MALES MEAN	16.6	12.6**	12.2**	13.3**
S.D.	3.47	3.45	3.50	3.27
N	22	24	23	24
FEMALES MEAN	15.8	12.2**	11.8**	12.5**
S.D.	3.14	3.07	2.55	2.96
N	22	24	23	24

-----

PND = POSTNATAL DAY

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

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09/04/2002

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TABLE 120 (F2 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 1

DOSE GROUP:	P U P S				L I T T E R S			
	1	2	3	4	1	2	3	4
NUMBER EXAMINED VISCERALLY	6	11	10	10	6	4	8	8
LUNGS								
DISCOLORATION, DARK RED	0	0	1	0	0	0	1	0
STOMACH								
MILK NOT PRESENT	2	0	4	7	2	0	4	5
MILK PRESENT	1	1	1	0	1	1	1	0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM					

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TABLE 121 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PAGE 1

DOSE GROUP:	P U P S				L I T T E R S			
	1	2	3	4	1	2	3	4
NUMBER EXAMINED VISCERALLY	125	142	135	141	22	24	23	24
KIDNEY DILATED PELVIS	0	2	2	0	0	2	2	0
1- 0 PPM	2- 500 PPM	3- 1000 PPM	4- 2500 PPM					

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 R:10/04/2002

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TABLE 122 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF MACROSCOPIC FINDINGS

PAGE 1

SCHEDULED NECROPSY

GROUP:	M A L E				F E M A L E			
	1	2	3	4	1	2	3	4
NUMBER OF ANIMALS IN DOSE GROUP	30	30	30	30	30	30	30	30
NUMBER OF ANIMALS EXAMINED	22	24	23	24	22	24	23	24
KIDNEYS -DILATED PELVIS	0	0	0	0	0	0	0	1
NO SIGNIFICANT CHANGES OBSERVED - ALL EXAMINED TISSUES	22	24	23	24	22	24	23	23

1- 0 PPM      2- 500 PPM      3- 1000 PPM      4- 2500 PPM

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 09/04/2002  
 R:10/04/2002

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TABLE 123 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

PAGE 1  
 DAY 21

GROUP:		0 PPM	M A L E		1000 PPM	2500 PPM
			500 PPM			
-----						
BRAIN (G)						
	MEAN	1.3987	1.3616		1.3603	1.3869
	S.D.	0.08004	0.08290		0.09329	0.08777
	N	22	24		23	24
SPLEEN (G)						
	MEAN	0.1815	0.1491		0.1385**	0.1545
	S.D.	0.04724	0.04485		0.04906	0.04566
	N	22	24		23	24
THYMUS GLAND (G)						
	MEAN	0.1678	0.1515		0.1382	0.1491
	S.D.	0.03308	0.03889		0.04131	0.03176
	N	22	24		23	24
-----						

\*\* = Significantly different from the control group at 0.01 using Dunnett's test

TABLE 123 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WEIGHTS [G]

GROUP:		0 PPM	----- F E M A L E -----		1000 PPM	2500 PPM
			500 PPM			
BRAIN (G)						
	MEAN	1.3623	1.3196	1.3117	1.3490	
	S.D.	0.06735	0.06989	0.09923	0.08539	
	N	22	24	23	24	
SPLEEN (G)						
	MEAN	0.1905	0.1481**	0.1381**	0.1552*	
	S.D.	0.05326	0.04614	0.04514	0.04393	
	N	22	24	23	24	
THYMUS GLAND (G)						
	MEAN	0.1778	0.1621	0.1495*	0.1498*	
	S.D.	0.03608	0.03803	0.03781	0.03372	
	N	22	24	23	24	

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

TABLE 124 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

GROUP:	M A L E			
	0 PPM	500 PPM	1000 PPM	2500 PPM
FINAL BODY WT (G)				
MEAN	44.	37.**	37.**	39.*
S.D.	7.1	7.2	6.6	5.4
N	22	24	23	24
BRAIN				
MEAN	3.274	3.776**	3.796**	3.620
S.D.	0.4847	0.6433	0.4829	0.4545
N	22	24	23	24
SPLEEN				
MEAN	0.411	0.394	0.372	0.391
S.D.	0.0586	0.0649	0.0824	0.0689
N	22	24	23	24
THYMUS GLAND				
MEAN	0.385	0.407	0.373	0.384
S.D.	0.0530	0.0724	0.0765	0.0692
N	22	24	23	24

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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TABLE 124 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 SUMMARY OF ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

GROUP:	----- F E M A L E -----			
	0 PPM	500 PPM	1000 PPM	2500 PPM
FINAL BODY WT (G)				
MEAN	43.	37.**	36.**	37.**
S.D.	7.3	6.1	5.4	4.6
N	22	24	23	24
BRAIN				
MEAN	3.272	3.690**	3.700**	3.713**
S.D.	0.4407	0.5140	0.4095	0.4018
N	22	24	23	24
SPLEEN				
MEAN	0.442	0.398	0.378*	0.419
S.D.	0.0633	0.0662	0.0767	0.0983
N	22	24	23	24
THYMUS GLAND				
MEAN	0.419	0.441	0.416	0.408
S.D.	0.0532	0.0586	0.0948	0.0840
N	22	24	23	24

\* = Significantly different from the control group at 0.05 using Dunnett's test  
 \*\* = Significantly different from the control group at 0.01 using Dunnett's test

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**FINAL REPORT**

Volume 2 of 10  
(Individual Tables 125-130)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 125 - 130**

TABLE 125 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

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ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74602	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74603	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74610	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74614	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74616	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74620	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74627	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74630	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74632	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74633	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74636	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74644	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74645	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74648	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74656	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74660	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74664	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74665	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74669	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74677	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74681	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74682	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74686	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74696	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74698	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74700	M	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74701	M	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74707	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74711	M	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74724	M	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133

TABLE 125 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

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ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74601	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74604	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74605	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74609	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74612	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74613	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74621	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74625	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74626	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74634	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74641	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74642	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74655	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74662	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74666	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74667	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74671	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74673	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74676	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74685	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74689	M	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74690	M	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74704	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74708	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74709	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74712	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74715	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74722	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74729	M	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74733	M	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133

TABLE 125 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74606	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74607	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74608	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74611	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74615	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74617	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74618	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74619	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74622	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74638	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74639	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74650	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74661	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74668	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74670	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74674	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74675	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74679	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74683	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74684	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74691	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74693	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74699	M	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74706	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74710	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74717	M	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74719	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74727	M	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74734	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74735	M	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128

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TABLE 125 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74624	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74628	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74629	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74631	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74635	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74640	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74643	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74646	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74647	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74649	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74652	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74653	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74658	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74659	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74663	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74680	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74688	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74692	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74695	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74697	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74702	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74703	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74705	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74713	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74718	M	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74720	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74723	M	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74725	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74726	M	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74728	M	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128

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TABLE 126 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74737	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74740	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74745	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74749	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74756	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74757	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74759	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74764	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74767	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74772	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74773	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74774	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74779	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74789	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74794	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74804	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74808	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74810	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74815	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74826	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74828	F	0 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74829	F	0 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74840	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74841	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74842	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74844	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74845	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74854	F	0 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74864	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74867	F	0 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132

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TABLE 126 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

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ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74742	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74746	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74753	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74761	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74762	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74765	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74782	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74785	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74790	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74796	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74797	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74798	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74802	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74805	F	500 PPM	EUTHANIZED IN EXTREMIS	07-DEC-01	94
74809	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74812	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74816	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74819	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74823	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74824	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74835	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74838	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74839	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74846	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74856	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74859	F	500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74861	F	500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74863	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74869	F	500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74873	F	500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133

TABLE 126 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

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ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74738	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74739	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74743	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74744	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74748	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74752	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74766	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74777	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74780	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74791	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74793	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74795	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74799	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74801	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74806	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74818	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74820	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74821	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74830	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74831	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74834	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74847	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74848	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74849	F	1000 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74850	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74855	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74858	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74865	F	1000 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74868	F	1000 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74871	F	1000 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133

TABLE 126 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74747	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74750	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74751	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74754	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74755	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74768	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74769	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74770	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74781	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74784	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74786	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74787	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74792	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74800	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74803	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74807	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74811	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74813	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74817	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74822	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74827	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74832	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74833	F	2500 PPM	SCHEDULED EUTHANASIA	14-JAN-02	132
74836	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74853	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74857	F	2500 PPM	SCHEDULED EUTHANASIA	10-JAN-02	128
74860	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74862	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129
74866	F	2500 PPM	SCHEDULED EUTHANASIA	15-JAN-02	133
74870	F	2500 PPM	SCHEDULED EUTHANASIA	11-JAN-02	129

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74602	M	0 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74602	M	0 PPM	BODY/INTEGUMENT	10-02-01	6:22	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:44	1	HAIR LOSS RIGHT FORELIMB
74602	M	0 PPM	ORAL/DENTAL	11-13-01	6:05	P	TEETH LONG, TRIMMED
74603	M	0 PPM	DISPOSITION	01-10-02	8:44	P	SCHEDULED EUTHANASIA
74603	M	0 PPM	BODY/INTEGUMENT	12-04-01	5:57	1	HAIR LOSS RIGHT FORELIMB
74603	M	0 PPM	ORAL/DENTAL	11-13-01	6:06	P	TEETH LONG, TRIMMED
74610	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74610	M	0 PPM	ORAL/DENTAL	11-13-01	6:07	P	TEETH LONG, TRIMMED
74614	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74614	M	0 PPM	ORAL/DENTAL	11-13-01	6:08	P	TEETH LONG, TRIMMED
74616	M	0 PPM	DISPOSITION	01-14-02	8:20	P	SCHEDULED EUTHANASIA
74616	M	0 PPM	ORAL/DENTAL	11-13-01	6:10	P	TEETH LONG, TRIMMED
74620	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74620	M	0 PPM	EYES/EARS/NOSE	11-13-01	6:11	1	DRIED RED MATERIAL AROUND NOSE
74620	M	0 PPM	ORAL/DENTAL	11-13-01	6:11	P	TEETH LONG, TRIMMED
74627	M	0 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74627	M	0 PPM	EXCRETA	09-11-01	6:04	P	SOFT STOOL
74630	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74630	M	0 PPM	EYES/EARS/NOSE	01-01-02	7:16	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-08-02	6:27	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-15-02	6:56	1	DRIED RED MATERIAL AROUND RIGHT EYE
74630	M	0 PPM	ORAL/DENTAL	01-08-02	6:27	P	UPPER INCISORS MALALIGNED
74632	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74633	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74636	M	0 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74644	M	0 PPM	DISPOSITION	01-10-02	8:44	P	SCHEDULED EUTHANASIA
74644	M	0 PPM	BODY/INTEGUMENT	10-02-01	6:26	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:26	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74644	M	0 PPM	BODY/INTEGUMENT	10-09-01	7:05	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:05	2	HAIR LOSS LEFT FORELIMB
				10-16-01	6:19	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:19	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:21	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:21	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:14	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:14	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:15	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:15	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:15	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:15	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:20	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:20	2	HAIR LOSS LEFT FORELIMB
				11-27-01	6:36	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:36	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:01	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:01	2	HAIR LOSS LEFT FORELIMB
				12-11-01	6:37	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:37	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:49	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:50	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:20	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:20	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:17	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:17	1	HAIR LOSS LEFT FORELIMB
				01-08-02	6:29	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	6:29	1	HAIR LOSS LEFT FORELIMB
				01-10-02	8:31	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

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ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74644	M	0 PPM	BODY/INTEGUMENT	01-10-02	8:31	1	HAIR LOSS LEFT FORELIMB
74645	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74648	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74656	M	0 PPM	DISPOSITION	01-11-02	8:12	P	SCHEDULED EUTHANASIA
74660	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74660	M	0 PPM	EYES/EARS/NOSE	11-13-01	6:17	1	DRIED RED MATERIAL AROUND NOSE
74664	M	0 PPM	DISPOSITION	01-10-02	8:44	P	SCHEDULED EUTHANASIA
74664	M	0 PPM	BODY/INTEGUMENT	12-18-01	6:51	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:51	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:53	P	SCABBING LEFT FORELIMB
				12-18-01	6:53	P	SCABBING RIGHT FORELIMB
				12-25-01	7:23	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:23	2	HAIR LOSS LEFT FORELIMB
				01-01-02	7:18	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:18	1	HAIR LOSS LEFT FORELIMB
74664	M	0 PPM	EYES/EARS/NOSE	12-25-01	7:23	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	7:23	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	6:31	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-08-02	6:31	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-10-02	8:32	1	DRIED RED MATERIAL AROUND LEFT EYE
74664	M	0 PPM	ORAL/DENTAL	12-25-01	7:22	P	UPPER INCISORS MALALIGNED
				12-25-01	7:22	P	TEETH LONG, TRIMMED
				01-08-02	6:31	P	UPPER INCISOR MISSING
				01-08-02	6:31	P	TEETH LONG, TRIMMED
74665	M	0 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74669	M	0 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74669	M	0 PPM	BODY/INTEGUMENT	10-23-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:16	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:23	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74669	M	0 PPM	BODY/INTEGUMENT	12-25-01	7:23	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:19	1	HAIR LOSS RIGHT FORELIMB
74677	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74677	M	0 PPM	BODY/INTEGUMENT	09-25-01	7:10	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:29	1	HAIR LOSS RIGHT FORELIMB
74681	M	0 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74682	M	0 PPM	DISPOSITION	01-10-02	8:44	P	SCHEDULED EUTHANASIA
74682	M	0 PPM	EYES/EARS/NOSE	11-13-01	6:20	1	DRIED RED MATERIAL AROUND NOSE
74686	M	0 PPM	DISPOSITION	01-10-02	8:44	P	SCHEDULED EUTHANASIA
74696	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74698	M	0 PPM	DISPOSITION	01-11-02	8:12	P	SCHEDULED EUTHANASIA
74700	M	0 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74701	M	0 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74701	M	0 PPM	BODY/INTEGUMENT	12-25-01	7:27	1	HAIR LOSS RIGHT FORELIMB
74701	M	0 PPM	EYES/EARS/NOSE	12-04-01	6:10	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	6:57	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-18-01	6:57	2	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	7:27	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	6:35	1	DRIED RED MATERIAL AROUND LEFT EYE
74701	M	0 PPM	EXCRETA	11-13-01	7:26	P	DECREASED DEFECATION
				11-13-01	7:26	P	DECREASED URINATION
74701	M	0 PPM	ORAL/DENTAL	11-13-01	6:26	P	UPPER INCISOR MISSING
				11-13-01	6:26	P	TEETH LONG, TRIMMED
				12-04-01	6:09	P	UPPER INCISOR MISSING
				12-04-01	6:09	P	TEETH LONG, TRIMMED
				12-04-01	6:09	P	UPPER INCISORS MALALIGNED
				12-11-01	6:43	P	UPPER INCISORS MALALIGNED
				12-18-01	6:57	P	UPPER INCISORS MALALIGNED
				12-18-01	6:57	P	TEETH LONG, TRIMMED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	ORAL/DENTAL	12-25-01	7:27	P	UPPER INCISORS MALALIGNED
				12-25-01	7:27	P	TEETH LONG, TRIMMED
				01-08-02	6:35	P	UPPER INCISORS MALALIGNED
				01-08-02	6:35	P	TEETH LONG, TRIMMED
74707	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74711	M	0 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74711	M	0 PPM	BODY/INTEGUMENT	11-13-01	6:27	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:28	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:28	1	HAIR LOSS LEFT FORELIMB
				12-11-01	6:44	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:44	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:58	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:28	1	HAIR LOSS LEFT FORELIMB
74724	M	0 PPM	DISPOSITION	01-15-02	7:15	P	SCHEDULED EUTHANASIA
74724	M	0 PPM	EXCRETA	01-01-02	7:23	P	SOFT STOOL
				01-08-02	6:37	P	SOFT STOOL
74601	M	500 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74604	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74605	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74609	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74612	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74613	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74621	M	500 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74621	M	500 PPM	BODY/INTEGUMENT	09-04-01	6:15	1	HAIR LOSS RIGHT FORELIMB
				09-04-01	6:15	1	HAIR LOSS LEFT FORELIMB
				09-11-01	6:13	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:13	1	HAIR LOSS LEFT FORELIMB
				09-18-01	7:14	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74621	M	500 PPM	BODY/INTEGUMENT	09-18-01	7:14	1	HAIR LOSS LEFT FORELIMB
				10-02-01	6:35	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:35	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:20	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:20	1	HAIR LOSS LEFT FORELIMB
				01-10-02	8:35	P	SCABBING LEFT FORELIMB
				01-10-02	8:35	1	HAIR LOSS LEFT FORELIMB
74621	M	500 PPM	EYES/EARS/NOSE	09-25-01	7:21	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-02-01	6:35	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-09-01	7:20	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-09-01	7:20	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-16-01	6:29	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-23-01	6:31	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-13-01	6:31	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-20-01	6:30	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	7:02	2	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	7:30	2	DRIED RED MATERIAL AROUND LEFT EYE
				01-01-02	7:26	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	6:40	2	DRIED RED MATERIAL AROUND LEFT EYE
				01-10-02	8:35	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-02-01	6:35	P	UPPER INCISORS MALALIGNED
74621	M	500 PPM	ORAL/DENTAL	10-02-01	6:35	P	TEETH LONG, TRIMMED
				10-16-01	6:29	P	UPPER INCISORS MALALIGNED
				10-23-01	6:31	P	UPPER INCISORS MALALIGNED
				10-23-01	6:31	P	TEETH LONG, TRIMMED
				10-30-01	6:24	P	UPPER INCISORS MALALIGNED
				10-30-01	6:24	P	TEETH LONG, TRIMMED
				11-06-01	6:22	P	UPPER INCISORS MALALIGNED
				11-13-01	6:32	P	TEETH LONG, TRIMMED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74621	M	500 PPM	ORAL/DENTAL	12-18-01	7:02	P	UPPER INCISORS MALALIGNED
				12-18-01	7:02	P	TEETH LONG, TRIMMED
				12-25-01	7:30	P	UPPER INCISORS MALALIGNED
				12-25-01	7:30	P	TEETH LONG, TRIMMED
				01-01-02	7:26	P	UPPER INCISORS MALALIGNED
				01-01-02	7:26	P	TEETH LONG, TRIMMED
				01-08-02	6:40	P	TEETH LONG, TRIMMED
				01-08-02	6:40	P	UPPER INCISOR MISSING
74625	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74626	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74634	M	500 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74634	M	500 PPM	BODY/INTEGUMENT	10-23-01	6:32	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:32	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:24	1	HAIR LOSS LEFT FORELIMB
				11-06-01	6:23	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:27	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:27	1	HAIR LOSS LEFT FORELIMB
74634	M	500 PPM	EYES/EARS/NOSE	11-13-01	6:34	1	DRIED RED MATERIAL AROUND NOSE
74634	M	500 PPM	SPECIAL II	01-10-02	8:37	1	SALIVATION
74641	M	500 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74641	M	500 PPM	BODY/INTEGUMENT	09-11-01	6:15	P	SCABBING RIGHT LATERAL NECK
				09-18-01	7:14	P	SCABBING RIGHT LATERAL NECK
				09-25-01	7:23	P	SCABBING RIGHT LATERAL NECK
74642	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74642	M	500 PPM	BODY/INTEGUMENT	10-02-01	6:37	2	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:37	2	HAIR LOSS LEFT FORELIMB
				10-09-01	7:22	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:22	2	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74642	M	500 PPM	BODY/INTEGUMENT	10-16-01	6:30	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:30	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:33	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:33	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:25	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:25	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:24	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:35	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:32	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:32	1	HAIR LOSS LEFT FORELIMB
				11-27-01	6:47	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:47	1	HAIR LOSS LEFT FORELIMB
				12-18-01	7:04	1	HAIR LOSS LEFT FORELIMB
				01-15-02	7:00	1	HAIR LOSS RIGHT FORELIMB
74642	M	500 PPM	EXCRETA	01-01-02	7:28	P	SOFT STOOL
74655	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74655	M	500 PPM	BODY/INTEGUMENT	10-02-01	6:38	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:38	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:23	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:23	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:31	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:31	1	HAIR LOSS LEFT FORELIMB
				10-23-01	6:34	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:34	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:25	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:25	1	HAIR LOSS LEFT FORELIMB
				11-06-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:24	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74655	M	500 PPM	BODY/INTEGUMENT	11-20-01	6:32	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:32	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:32	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:32	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:28	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:28	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:16	1	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:16	1	HAIR LOSS LEFT FORELIMB
74662	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74666	M	500 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74667	M	500 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74667	M	500 PPM	EYES/EARS/NOSE	11-13-01	6:37	1	DRIED RED MATERIAL AROUND NOSE
74671	M	500 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74673	M	500 PPM	DISPOSITION	01-11-02	8:40	P	SCHEDULED EUTHANASIA
74676	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74685	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74689	M	500 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74689	M	500 PPM	ORAL/DENTAL	11-13-01	6:40	P	TEETH LONG, TRIMMED
74690	M	500 PPM	DISPOSITION	01-10-02	8:45	P	SCHEDULED EUTHANASIA
74704	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74708	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74709	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74709	M	500 PPM	BODY/INTEGUMENT	10-23-01	6:38	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:38	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:31	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:31	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:28	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:28	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:42	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74709	M	500 PPM	BODY/INTEGUMENT	11-13-01	6:42	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:35	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:35	2	HAIR LOSS LEFT FORELIMB
				11-27-01	6:51	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:51	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:20	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:20	2	HAIR LOSS LEFT FORELIMB
				12-11-01	6:51	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:51	2	HAIR LOSS LEFT FORELIMB
				12-18-01	7:08	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:08	2	HAIR LOSS LEFT FORELIMB
				12-25-01	7:35	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:35	2	HAIR LOSS LEFT FORELIMB
				01-01-02	7:31	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:31	2	HAIR LOSS LEFT FORELIMB
				01-08-02	6:46	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	6:46	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:08	2	HAIR LOSS LEFT FORELIMB
				01-11-02	8:08	1	HAIR LOSS RIGHT FORELIMB
74712	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74712	M	500 PPM	EYES/EARS/NOSE	10-23-01	6:39	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:43	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-20-01	6:36	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-04-01	6:21	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-18-01	7:09	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	7:37	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-01-02	7:32	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-08-02	6:47	2	DRIED RED MATERIAL AROUND RIGHT EYE
74712	M	500 PPM	ORAL/DENTAL	10-23-01	6:39	P	UPPER INCISORS MALALIGNED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74712	M	500 PPM	ORAL/DENTAL	10-23-01	6:39	P	TEETH LONG, TRIMMED
				10-30-01	6:31	P	UPPER INCISORS MALALIGNED
				10-30-01	6:31	P	TEETH LONG, TRIMMED
				12-04-01	6:21	P	TEETH LONG, TRIMMED
				12-04-01	6:21	P	UPPER INCISORS MALALIGNED
				12-11-01	6:52	P	UPPER INCISORS MALALIGNED
				12-25-01	7:36	P	UPPER INCISORS MALALIGNED
				01-01-02	7:32	P	UPPER INCISORS MALALIGNED
				01-01-02	7:32	P	TEETH LONG, TRIMMED
				01-08-02	6:47	P	UPPER INCISORS MALALIGNED
				01-08-02	6:47	P	TEETH LONG, TRIMMED
74715	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74722	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74729	M	500 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74733	M	500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74733	M	500 PPM	BODY/INTEGUMENT	10-02-01	6:42	2	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:42	2	HAIR LOSS LEFT FORELIMB
				10-09-01	7:28	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:28	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:36	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:36	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:41	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:41	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:32	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:33	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:29	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:29	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:45	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:45	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74733	M	500 PPM	BODY/INTEGUMENT	11-20-01	6:37	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:37	2	HAIR LOSS LEFT FORELIMB
				11-27-01	6:52	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:52	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:23	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:23	1	HAIR LOSS LEFT FORELIMB
				12-11-01	6:53	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:53	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:38	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:38	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:33	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:33	1	HAIR LOSS LEFT FORELIMB
				01-15-02	7:05	1	HAIR LOSS RIGHT FORELIMB
				01-15-02	7:05	1	HAIR LOSS LEFT FORELIMB
74606	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74607	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74607	M	1000 PPM	BODY/INTEGUMENT	09-25-01	7:32	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	7:32	1	HAIR LOSS LEFT FORELIMB
				10-02-01	6:43	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:43	1	HAIR LOSS LEFT FORELIMB
				10-23-01	6:43	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:43	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:34	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:34	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:32	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:32	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:49	2	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:49	2	HAIR LOSS LEFT FORELIMB
				11-20-01	6:38	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74607	M	1000 PPM	BODY/INTEGUMENT	11-20-01	6:38	2	HAIR LOSS LEFT FORELIMB
				11-27-01	6:53	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:53	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:26	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:26	2	HAIR LOSS LEFT FORELIMB
				12-11-01	6:54	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:54	1	HAIR LOSS LEFT FORELIMB
				12-18-01	7:12	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:12	2	HAIR LOSS LEFT FORELIMB
				12-25-01	7:40	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:40	2	HAIR LOSS LEFT FORELIMB
				01-01-02	7:34	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:34	1	HAIR LOSS LEFT FORELIMB
				01-08-02	6:49	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	6:49	1	HAIR LOSS LEFT FORELIMB
				01-10-02	8:41	2	HAIR LOSS RIGHT FORELIMB
				01-10-02	8:41	1	HAIR LOSS LEFT FORELIMB
74608	M	1000 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74611	M	1000 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74611	M	1000 PPM	EXCRETA	09-18-01	7:19	P	SOFT STOOL
74615	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74617	M	1000 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74617	M	1000 PPM	BODY/INTEGUMENT	10-23-01	6:44	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:35	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:33	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:50	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:40	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:13	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:13	2	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BODY/INTEGUMENT	12-25-01	7:41	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:41	3	HAIR LOSS LEFT FORELIMB
				01-01-02	7:35	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:35	2	HAIR LOSS LEFT FORELIMB
				01-08-02	6:51	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	6:51	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:17	2	HAIR LOSS LEFT FORELIMB
				01-14-02	8:17	2	HAIR LOSS RIGHT FORELIMB
74618	M	1000 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74619	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74619	M	1000 PPM	BODY/INTEGUMENT	09-18-01	7:20	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	7:35	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	7:35	1	HAIR LOSS LEFT FORELIMB
				10-02-01	6:45	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:45	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:32	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:32	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:39	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:39	1	HAIR LOSS LEFT FORELIMB
				10-23-01	6:45	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:45	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:36	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:36	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:33	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:33	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:51	3	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:51	3	HAIR LOSS LEFT FORELIMB
				11-20-01	6:40	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:40	2	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74619	M	1000 PPM	BODY/INTEGUMENT	11-27-01	6:55	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	6:55	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:28	3	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:28	3	HAIR LOSS LEFT FORELIMB
				12-11-01	6:56	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	6:56	2	HAIR LOSS LEFT FORELIMB
				12-18-01	7:14	3	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:14	2	HAIR LOSS LEFT FORELIMB
				12-25-01	7:42	3	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:42	3	HAIR LOSS LEFT FORELIMB
				01-01-02	7:36	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:36	2	HAIR LOSS LEFT FORELIMB
				01-08-02	6:51	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	6:51	2	HAIR LOSS LEFT FORELIMB
				01-15-02	7:06	3	HAIR LOSS RIGHT FORELIMB
				01-15-02	7:06	2	HAIR LOSS LEFT FORELIMB
74622	M	1000 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74638	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74639	M	1000 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74650	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74661	M	1000 PPM	DISPOSITION	01-11-02	8:14	P	SCHEDULED EUTHANASIA
74668	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74670	M	1000 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74674	M	1000 PPM	DISPOSITION	01-14-02	8:21	P	SCHEDULED EUTHANASIA
74674	M	1000 PPM	EYES/EARS/NOSE	11-06-01	6:36	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:54	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-20-01	6:43	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-27-01	6:59	2	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	7:44	1	DRIED RED MATERIAL AROUND RIGHT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74674	M	1000 PPM	EYES/EARS/NOSE	01-08-02	6:55	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-14-02	8:18	1	DRIED RED MATERIAL AROUND RIGHT EYE
74674	M	1000 PPM	EXCRETA	12-18-01	7:18	P	SOFT STOOL
74674	M	1000 PPM	ORAL/DENTAL	11-06-01	6:35	P	UPPER INCISORS MALALIGNED
				11-13-01	6:54	P	UPPER INCISORS MALALIGNED
				12-25-01	7:44	P	UPPER INCISORS MALALIGNED
				12-25-01	7:44	P	TEETH LONG, TRIMMED
				01-08-02	6:55	P	TEETH LONG, TRIMMED
				01-08-02	6:55	P	UPPER INCISOR MISSING
74675	M	1000 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74675	M	1000 PPM	EYES/EARS/NOSE	11-13-01	6:54	1	DRIED RED MATERIAL AROUND NOSE
74679	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74679	M	1000 PPM	EXCRETA	09-18-01	7:22	P	SOFT STOOL
74683	M	1000 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74683	M	1000 PPM	EYES/EARS/NOSE	10-16-01	6:44	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-16-01	6:44	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-23-01	6:49	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-23-01	6:49	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-06-01	6:37	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-13-01	6:56	2	DRIED RED MATERIAL AROUND LEFT EYE
				11-20-01	6:45	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-27-01	7:00	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-04-01	6:33	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-11-01	7:00	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	7:20	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	7:45	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-01-02	7:39	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	6:56	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-10-02	8:41	1	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74683	M	1000 PPM	ORAL/DENTAL	10-16-01	6:43	P	UPPER INCISORS MALALIGNED
				10-23-01	6:49	P	UPPER INCISORS MALALIGNED
				10-23-01	6:49	P	TEETH LONG, TRIMMED
				10-30-01	6:39	P	UPPER INCISORS MALALIGNED
				11-06-01	6:36	P	UPPER INCISORS MALALIGNED
				11-13-01	6:55	P	UPPER INCISORS MALALIGNED
				11-13-01	6:55	P	TEETH LONG, TRIMMED
				11-27-01	7:00	P	UPPER INCISORS MALALIGNED
				11-27-01	7:00	P	TEETH LONG, TRIMMED
				12-04-01	6:33	P	UPPER INCISORS MALALIGNED
				12-04-01	6:33	P	TEETH LONG, TRIMMED
				12-11-01	6:59	P	UPPER INCISORS MALALIGNED
				12-18-01	7:20	P	UPPER INCISORS MALALIGNED
				12-18-01	7:20	P	TEETH LONG, TRIMMED
				12-25-01	7:45	P	UPPER INCISORS MALALIGNED
				01-08-02	6:56	P	UPPER INCISORS MALALIGNED
				01-08-02	6:56	P	TEETH LONG, TRIMMED
74684	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74691	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74693	M	1000 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74693	M	1000 PPM	EXCRETA	11-13-01	6:58	P	SOFT STOOL
				11-27-01	7:01	P	SOFT STOOL
74699	M	1000 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74706	M	1000 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74706	M	1000 PPM	EYES/EARS/NOSE	11-06-01	6:38	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-13-01	6:59	2	DRIED RED MATERIAL AROUND LEFT EYE
				11-20-01	6:47	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-27-01	7:02	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-04-01	6:36	1	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74706	M	1000 PPM	EYES/EARS/NOSE	12-11-01	7:02	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	7:23	2	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	7:47	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	6:58	2	DRIED RED MATERIAL AROUND LEFT EYE
				01-14-02	8:18	2	DRIED RED MATERIAL AROUND LEFT EYE
74706	M	1000 PPM	ORAL/DENTAL	10-30-01	6:40	P	TEETH LONG, TRIMMED
				11-06-01	6:38	P	UPPER INCISORS MALALIGNED
				11-13-01	6:59	P	UPPER INCISORS MALALIGNED
				11-27-01	7:02	P	UPPER INCISORS MALALIGNED
				12-04-01	6:35	P	UPPER INCISORS MALALIGNED
				12-18-01	7:23	P	UPPER INCISORS MALALIGNED
				12-25-01	7:47	P	UPPER INCISORS MALALIGNED
				01-01-02	7:41	P	UPPER INCISORS MALALIGNED
				01-08-02	6:58	P	UPPER INCISORS MALALIGNED
74710	M	1000 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74710	M	1000 PPM	BODY/INTEGUMENT	09-04-01	6:32	1	HAIR LOSS RIGHT FORELIMB
				09-04-01	6:32	1	HAIR LOSS LEFT FORELIMB
				09-11-01	6:30	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:30	1	HAIR LOSS LEFT FORELIMB
				11-06-01	6:38	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:39	2	HAIR LOSS LEFT FORELIMB
				11-20-01	6:47	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:47	1	HAIR LOSS LEFT FORELIMB
				11-27-01	7:02	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:02	1	HAIR LOSS LEFT FORELIMB
				11-27-01	7:03	1	HAIR LOSS LEFT HINDLIMB
				12-04-01	6:37	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:37	2	HAIR LOSS LEFT FORELIMB
				12-11-01	7:02	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS				
74710	M	1000 PPM	BODY/INTEGUMENT	12-11-01	7:02	2	HAIR LOSS LEFT FORELIMB				
				12-18-01	7:24	1	HAIR LOSS RIGHT FORELIMB				
				12-18-01	7:24	1	HAIR LOSS LEFT FORELIMB				
				12-25-01	7:49	1	HAIR LOSS RIGHT FORELIMB				
				12-25-01	7:49	1	HAIR LOSS LEFT FORELIMB				
				01-01-02	7:41	1	HAIR LOSS RIGHT FORELIMB				
				01-01-02	7:41	1	HAIR LOSS LEFT FORELIMB				
				01-11-02	8:09	1	HAIR LOSS LEFT FORELIMB				
				01-11-02	8:09	1	HAIR LOSS RIGHT FORELIMB				
				74710	M	1000 PPM	EYES/EARS/NOSE	10-09-01	7:38	1	DRIED RED MATERIAL AROUND LEFT EYE
10-16-01	6:47	1	DRIED RED MATERIAL AROUND LEFT EYE								
11-13-01	6:59	1	DRIED RED MATERIAL AROUND LEFT EYE								
12-11-01	7:02	1	DRIED RED MATERIAL AROUND LEFT EYE								
12-25-01	7:48	1	DRIED RED MATERIAL AROUND LEFT EYE								
01-01-02	7:41	1	DRIED RED MATERIAL AROUND LEFT EYE								
01-08-02	7:00	1	DRIED RED MATERIAL AROUND LEFT EYE								
01-11-02	8:09	1	DRIED RED MATERIAL AROUND LEFT EYE								
74710	M	1000 PPM	ORAL/DENTAL					10-09-01	7:38	P	UPPER INCISORS MALALIGNED
								10-09-01	7:38	P	TEETH LONG, TRIMMED
				10-16-01	6:47	P	UPPER INCISORS MALALIGNED				
				10-16-01	6:47	P	TEETH LONG, TRIMMED				
				10-30-01	6:41	P	TEETH LONG, TRIMMED				
				11-13-01	6:59	P	UPPER INCISORS MALALIGNED				
				11-13-01	6:59	P	TEETH LONG, TRIMMED				
				12-25-01	7:48	P	UPPER INCISOR MISSING				
				12-25-01	7:48	P	TEETH LONG, TRIMMED				
				01-01-02	7:41	P	UPPER INCISORS MALALIGNED				
01-01-02	7:41	P	TEETH LONG, TRIMMED								
01-08-02	7:00	P	UPPER INCISORS MALALIGNED								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74710	M	1000 PPM	ORAL/DENTAL	01-08-02	7:00	P	TEETH LONG, TRIMMED
74717	M	1000 PPM	DISPOSITION	01-11-02	8:41	P	SCHEDULED EUTHANASIA
74719	M	1000 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74727	M	1000 PPM	DISPOSITION	01-14-02	13:21	P	SCHEDULED EUTHANASIA
74727	M	1000 PPM	BODY/INTEGUMENT	10-30-01	6:42	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:42	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:00	1	HAIR LOSS LEFT FORELIMB
74734	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74735	M	1000 PPM	DISPOSITION	01-10-02	8:46	P	SCHEDULED EUTHANASIA
74624	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74628	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74628	M	2500 PPM	BODY/INTEGUMENT	09-04-01	6:36	3	HAIR LOSS RIGHT FORELIMB
				09-04-01	6:36	1	HAIR LOSS LEFT FORELIMB
				09-11-01	6:32	3	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:32	1	HAIR LOSS LEFT FORELIMB
				09-18-01	7:26	3	HAIR LOSS RIGHT FORELIMB
				09-18-01	7:26	2	HAIR LOSS LEFT FORELIMB
				09-25-01	7:48	3	HAIR LOSS RIGHT FORELIMB
				09-25-01	7:48	3	HAIR LOSS LEFT FORELIMB
				10-02-01	6:52	3	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:52	3	HAIR LOSS LEFT FORELIMB
				10-09-01	7:43	3	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:43	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:50	3	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:50	1	HAIR LOSS LEFT FORELIMB
				10-23-01	6:55	3	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:55	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:43	3	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:43	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74628	M	2500 PPM	BODY/INTEGUMENT	11-06-01	6:47	3	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:47	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:03	3	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:03	2	HAIR LOSS LEFT FORELIMB
				11-27-01	7:05	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:40	3	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:40	2	HAIR LOSS LEFT FORELIMB
				12-11-01	7:05	3	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:05	1	HAIR LOSS LEFT FORELIMB
				12-18-01	7:28	3	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:28	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:51	3	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:51	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:44	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:45	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:03	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:03	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:19	2	HAIR LOSS LEFT FORELIMB
				01-14-02	8:19	3	HAIR LOSS RIGHT FORELIMB
74629	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74631	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74631	M	2500 PPM	BODY/INTEGUMENT	10-23-01	6:56	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:44	1	HAIR LOSS LEFT FORELIMB
74635	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74640	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74640	M	2500 PPM	BODY/INTEGUMENT	12-25-01	7:54	1	HAIR LOSS LEFT FORELIMB
74640	M	2500 PPM	EYES/EARS/NOSE	09-25-01	7:50	1	DRIED RED MATERIAL AROUND RIGHT EYE
				09-25-01	7:50	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-09-01	7:45	1	DRIED RED MATERIAL AROUND RIGHT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74640	M	2500 PPM	EYES/EARS/NOSE	10-09-01	7:45	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-16-01	6:52	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-16-01	6:52	1	DRIED RED MATERIAL AROUND LEFT EYE
				10-23-01	6:57	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-23-01	6:57	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-06-01	6:48	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	7:05	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	7:05	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-20-01	6:51	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-20-01	6:51	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-27-01	7:06	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-27-01	7:06	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-04-01	6:42	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-04-01	6:42	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-11-01	7:06	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-11-01	7:06	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	7:30	2	DRIED RED MATERIAL AROUND RIGHT EYE
				12-18-01	7:30	2	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	7:54	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	7:54	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-01-02	7:46	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-01-02	7:46	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	7:06	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-08-02	7:06	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-10-02	8:42	2	DRIED RED MATERIAL AROUND RIGHT EYE
				01-10-02	8:42	2	DRIED RED MATERIAL AROUND LEFT EYE
74640	M	2500 PPM	ORAL/DENTAL	09-25-01	7:51	P	UPPER INCISORS MALALIGNED
				10-02-01	6:54	P	UPPER INCISORS MALALIGNED
				10-09-01	7:45	P	UPPER INCISORS MALALIGNED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74640	M	2500 PPM	ORAL/DENTAL	10-09-01	7:45	P	TEETH LONG, TRIMMED
				10-16-01	6:52	P	UPPER INCISORS MALALIGNED
				10-16-01	6:52	P	TEETH LONG, TRIMMED
				10-23-01	6:57	P	UPPER INCISORS MALALIGNED
				10-30-01	6:48	P	UPPER INCISORS MALALIGNED
				10-30-01	6:48	P	TEETH LONG, TRIMMED
				11-06-01	6:48	P	UPPER INCISORS MALALIGNED
				11-13-01	7:05	P	UPPER INCISORS MALALIGNED
				11-13-01	7:05	P	TEETH LONG, TRIMMED
				11-20-01	6:51	P	UPPER INCISORS MALALIGNED
				11-20-01	6:51	P	TEETH LONG, TRIMMED
				11-27-01	7:07	P	UPPER INCISORS MALALIGNED
				12-04-01	6:41	P	UPPER INCISORS MALALIGNED
				12-04-01	6:41	P	TEETH LONG, TRIMMED
				12-11-01	7:06	P	UPPER INCISORS MALALIGNED
				12-11-01	7:06	P	TEETH LONG, TRIMMED
				12-18-01	7:30	P	UPPER INCISORS MALALIGNED
				12-18-01	7:30	P	TEETH LONG, TRIMMED
				01-01-02	7:46	P	UPPER INCISORS MALALIGNED
				01-01-02	7:46	P	TEETH LONG, TRIMMED
				01-08-02	7:06	P	UPPER INCISORS MALALIGNED
				01-08-02	7:06	P	TEETH LONG, TRIMMED
74643	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74643	M	2500 PPM	BODY/INTEGUMENT	10-23-01	6:57	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:57	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:49	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:49	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:48	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:49	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74643	M	2500 PPM	BODY/INTEGUMENT	11-13-01	7:06	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:06	2	HAIR LOSS LEFT FORELIMB
				11-20-01	6:52	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:52	1	HAIR LOSS LEFT FORELIMB
				11-27-01	7:07	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:07	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:42	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:42	2	HAIR LOSS LEFT FORELIMB
				12-11-01	7:07	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:07	1	HAIR LOSS LEFT FORELIMB
				12-18-01	7:31	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:31	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:54	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:54	2	HAIR LOSS LEFT FORELIMB
				01-01-02	7:47	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:47	3	HAIR LOSS LEFT FORELIMB
				01-08-02	7:06	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:06	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:19	2	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:19	2	HAIR LOSS LEFT FORELIMB
74646	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74646	M	2500 PPM	EYES/EARS/NOSE	09-25-01	7:52	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-09-01	7:46	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-20-01	6:52	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	7:56	1	DRIED RED MATERIAL AROUND RIGHT EYE
74646	M	2500 PPM	ORAL/DENTAL	09-25-01	7:52	P	UPPER INCISORS MALALIGNED
				10-02-01	6:54	P	UPPER INCISORS MALALIGNED
				10-09-01	7:46	P	UPPER INCISORS MALALIGNED
				10-09-01	7:46	P	TEETH LONG, TRIMMED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	ORAL/DENTAL	11-13-01	7:06	P	TEETH LONG, TRIMMED
				11-20-01	6:52	P	TEETH LONG, TRIMMED
				12-25-01	7:55	P	TEETH LONG, TRIMMED
				12-25-01	7:55	P	UPPER INCISORS MALALIGNED
74647	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74649	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74649	M	2500 PPM	BODY/INTEGUMENT	09-25-01	7:53	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	7:53	2	HAIR LOSS LEFT FORELIMB
				10-02-01	6:55	2	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:55	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:47	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:47	2	HAIR LOSS LEFT FORELIMB
				10-16-01	6:54	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:54	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:59	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:59	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:50	3	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:50	2	HAIR LOSS LEFT FORELIMB
				11-06-01	6:50	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:50	2	HAIR LOSS LEFT FORELIMB
				11-13-01	7:07	2	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:07	2	HAIR LOSS LEFT FORELIMB
				11-20-01	6:53	3	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:53	2	HAIR LOSS LEFT FORELIMB
				11-27-01	7:08	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:08	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:43	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:43	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:08	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74649	M	2500 PPM	BODY/INTEGUMENT	12-11-01	7:08	1	HAIR LOSS LEFT FORELIMB
				12-18-01	7:32	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:32	1	HAIR LOSS LEFT FORELIMB
				12-25-01	7:56	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:56	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:48	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:48	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:08	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:08	1	HAIR LOSS LEFT FORELIMB
				01-15-02	7:10	2	HAIR LOSS RIGHT FORELIMB
				01-15-02	7:10	1	HAIR LOSS LEFT FORELIMB
74652	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74652	M	2500 PPM	BODY/INTEGUMENT	12-25-01	7:57	1	HAIR LOSS LEFT FORELIMB
74653	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74658	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74659	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74659	M	2500 PPM	BODY/INTEGUMENT	09-11-01	6:36	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:36	1	HAIR LOSS LEFT FORELIMB
				10-02-01	6:56	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:57	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:51	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:51	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:09	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:09	1	HAIR LOSS LEFT FORELIMB
74663	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74680	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74688	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74692	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74692	M	2500 PPM	BODY/INTEGUMENT	10-02-01	6:58	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74692	M	2500 PPM	BODY/INTEGUMENT	10-02-01	6:58	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:50	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:50	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:57	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:57	1	HAIR LOSS LEFT FORELIMB
				10-23-01	7:02	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	7:02	2	HAIR LOSS LEFT FORELIMB
				10-30-01	6:52	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:52	1	HAIR LOSS LEFT FORELIMB
				11-06-01	6:52	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:52	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:11	2	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:11	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:56	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:11	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:46	3	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:11	3	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:35	3	HAIR LOSS RIGHT FORELIMB
				12-25-01	7:59	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:50	3	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:11	3	HAIR LOSS RIGHT FORELIMB
				01-11-02	8:10	3	HAIR LOSS RIGHT FORELIMB
74695	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74695	M	2500 PPM	BODY/INTEGUMENT	09-04-01	6:43	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:37	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:37	1	HAIR LOSS LEFT FORELIMB
				09-18-01	7:30	1	HAIR LOSS RIGHT FORELIMB
				09-18-01	7:30	1	HAIR LOSS LEFT FORELIMB
				09-25-01	7:57	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74695	M	2500 PPM	BODY/INTEGUMENT	09-25-01	7:57	1	HAIR LOSS LEFT FORELIMB
				10-02-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:58	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:50	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:50	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:57	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:57	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:52	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:52	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:11	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:11	1	HAIR LOSS LEFT FORELIMB
74697	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74702	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74702	M	2500 PPM	BODY/INTEGUMENT	10-02-01	6:59	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	6:59	1	HAIR LOSS LEFT FORELIMB
				10-09-01	7:51	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:51	1	HAIR LOSS LEFT FORELIMB
				10-16-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	6:58	1	HAIR LOSS LEFT FORELIMB
				10-23-01	7:03	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	7:03	1	HAIR LOSS LEFT FORELIMB
				10-30-01	6:53	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:53	1	HAIR LOSS LEFT FORELIMB
				11-06-01	6:55	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:55	1	HAIR LOSS LEFT FORELIMB
				11-13-01	7:12	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:12	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:57	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:57	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BODY/INTEGUMENT	12-04-01	6:47	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:47	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:12	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:12	1	HAIR LOSS LEFT FORELIMB
74702	M	2500 PPM	EYES/EARS/NOSE	10-23-01	7:03	1	DRIED RED MATERIAL AROUND NOSE
74703	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74705	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74713	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA
74713	M	2500 PPM	BODY/INTEGUMENT	10-23-01	7:04	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	8:01	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	8:01	1	HAIR LOSS LEFT FORELIMB
				01-01-02	7:52	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:52	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:13	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:13	1	HAIR LOSS LEFT FORELIMB
				01-10-02	8:42	1	HAIR LOSS RIGHT FORELIMB
				01-10-02	8:42	1	HAIR LOSS LEFT FORELIMB
74718	M	2500 PPM	DISPOSITION	01-15-02	7:16	P	SCHEDULED EUTHANASIA
74720	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74720	M	2500 PPM	BODY/INTEGUMENT	09-25-01	8:01	3	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:01	3	HAIR LOSS LEFT FORELIMB
				10-02-01	7:00	3	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:00	3	HAIR LOSS LEFT FORELIMB
				10-09-01	7:52	3	HAIR LOSS RIGHT FORELIMB
				10-09-01	7:52	3	HAIR LOSS LEFT FORELIMB
				10-16-01	7:00	3	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:00	3	HAIR LOSS LEFT FORELIMB
				10-23-01	7:05	3	HAIR LOSS RIGHT FORELIMB
				10-23-01	7:05	3	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	BODY/INTEGUMENT	10-30-01	6:55	3	HAIR LOSS RIGHT FORELIMB
				10-30-01	6:55	3	HAIR LOSS LEFT FORELIMB
				11-06-01	6:57	3	HAIR LOSS RIGHT FORELIMB
				11-06-01	6:57	3	HAIR LOSS LEFT FORELIMB
				11-13-01	7:15	3	HAIR LOSS RIGHT FORELIMB
				11-13-01	7:15	3	HAIR LOSS LEFT FORELIMB
				11-20-01	6:58	3	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:58	3	HAIR LOSS LEFT FORELIMB
				11-27-01	7:14	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:14	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:49	3	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:49	3	HAIR LOSS LEFT FORELIMB
				12-11-01	7:14	3	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:14	2	HAIR LOSS LEFT FORELIMB
				12-18-01	7:38	3	HAIR LOSS RIGHT FORELIMB
				12-18-01	7:38	1	HAIR LOSS LEFT FORELIMB
				12-25-01	8:01	3	HAIR LOSS RIGHT FORELIMB
				12-25-01	8:01	2	HAIR LOSS LEFT FORELIMB
				01-01-02	7:52	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	7:52	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:14	3	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:14	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:11	2	HAIR LOSS LEFT FORELIMB
				01-11-02	8:11	3	HAIR LOSS RIGHT FORELIMB
74723	M	2500 PPM	DISPOSITION	01-11-02	8:42	P	SCHEDULED EUTHANASIA
74725	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74726	M	2500 PPM	DISPOSITION	01-14-02	8:22	P	SCHEDULED EUTHANASIA
74726	M	2500 PPM	BODY/INTEGUMENT	12-25-01	8:02	1	HAIR LOSS RIGHT FORELIMB
74728	M	2500 PPM	DISPOSITION	01-10-02	8:47	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 127 (F0 MALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT						

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09/04/2002

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74737	F	0 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74737	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74740	F	0 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74740	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74745	F	0 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74745	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74749	F	0 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74749	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74756	F	0 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74756	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74757	F	0 PPM	DISPOSITION	01-15-02	7:49	P	SCHEDULED EUTHANASIA
74757	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74759	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74759	F	0 PPM	BODY/INTEGUMENT	09-25-01	8:14	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:14	1	HAIR LOSS LEFT FORELIMB
74759	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74764	F	0 PPM	DISPOSITION	01-15-02	7:49	P	SCHEDULED EUTHANASIA
74764	F	0 PPM	ORAL/DENTAL	09-25-01	8:15	P	TEETH LONG, TRIMMED
74764	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74767	F	0 PPM	DISPOSITION	01-10-02	9:08	P	SCHEDULED EUTHANASIA
74767	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
							NECROPSY
74772	F	0 PPM	DISPOSITION	01-10-02	9:08	P	SCHEDULED EUTHANASIA
74772	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74773	F	0 PPM	DISPOSITION	01-15-02	7:49	P	SCHEDULED EUTHANASIA
74773	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74774	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74774	F	0 PPM	BODY/INTEGUMENT	12-25-01	6:21	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:21	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:36	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:36	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:31	2	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:31	2	HAIR LOSS LEFT FORELIMB
74774	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74779	F	0 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74779	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74789	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74789	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74794	F	0 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74794	F	0 PPM	BODY/INTEGUMENT	12-12-01	7:18	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)
				12-18-01	5:59	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)
				12-25-01	7:15	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)
				01-01-02	6:36	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)
				01-08-02	7:23	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)
				01-15-02	7:22	P	FIRM MOVABLE MASS LEFT VENTRAL NECK (15MM X 15MM)

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74794	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74804	F	0 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74804	F	0 PPM	BODY/INTEGUMENT	10-02-01	7:14	P	SCABBING VENTRAL NECK
				10-09-01	8:26	P	SCABBING VENTRAL NECK
				10-30-01	7:03	1	HAIR LOSS VENTRAL NECK
				11-27-01	7:19	1	HAIR LOSS VENTRAL NECK
				12-04-01	6:13	2	HAIR LOSS VENTRAL NECK
				12-11-01	7:21	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:21	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:21	P	SCABBING VENTRAL NECK
				12-11-01	7:22	2	HAIR LOSS VENTRAL NECK
				12-18-01	6:01	3	HAIR LOSS VENTRAL NECK
				12-18-01	6:01	P	SCABBING VENTRAL NECK
				12-25-01	6:23	3	HAIR LOSS VENTRAL NECK
				12-25-01	6:23	P	SCABBING VENTRAL NECK
				01-01-02	6:37	P	SCABBING VENTRAL NECK
				01-01-02	6:37	3	HAIR LOSS VENTRAL NECK
				01-08-02	7:24	2	HAIR LOSS VENTRAL NECK
				01-08-02	7:24	P	SCABBING VENTRAL NECK
				01-15-02	7:24	P	SCABBING VENTRAL NECK
74804	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74808	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74808	F	0 PPM	BODY/INTEGUMENT	11-20-01	6:49	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:49	1	HAIR LOSS LEFT FORELIMB
				11-27-01	7:19	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:19	1	HAIR LOSS LEFT FORELIMB
				12-04-01	6:14	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808	F	0 PPM	BODY/INTEGUMENT	12-04-01	6:14	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:22	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:22	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:02	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:02	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:10	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:10	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:23	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:23	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:37	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:37	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:24	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:24	2	HAIR LOSS LEFT FORELIMB
				01-14-02	8:32	2	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:32	2	HAIR LOSS LEFT FORELIMB
74808	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74810	F	0 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74810	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74815	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74815	F	0 PPM	BODY/INTEGUMENT	12-25-01	6:24	3	HAIR LOSS RIGHT ABDOMINAL AREA
				01-01-02	6:37	3	HAIR LOSS RIGHT ABDOMINAL AREA
				01-01-02	6:37	3	HAIR LOSS LEFT ABDOMINAL AREA
				01-08-02	7:25	3	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-08-02	7:26	2	HAIR LOSS RIGHT HINDLIMB
				01-08-02	7:26	P	SCABBING RIGHT HINDLIMB
				01-14-02	8:32	3	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-14-02	8:33	3	HAIR LOSS RIGHT HINDLIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	BODY/INTEGUMENT	01-14-02	8:33	1	HAIR LOSS LEFT HINDLIMB
				01-14-02	8:33	P	SCABBING RIGHT HINDLIMB
				01-14-02	8:33	3	HAIR LOSS VENTRAL THORACIC AREA
74815	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74826	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74826	F	0 PPM	BODY/INTEGUMENT	10-02-01	7:15	2	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:15	2	HAIR LOSS LEFT FORELIMB
				10-09-01	8:27	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	8:27	2	HAIR LOSS LEFT FORELIMB
				10-16-01	7:10	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:10	3	HAIR LOSS LEFT FORELIMB
				10-16-01	7:11	3	HAIR LOSS LEFT HINDLIMB
				10-23-01	6:25	3	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:25	3	HAIR LOSS LEFT FORELIMB
				10-23-01	6:25	3	HAIR LOSS LEFT HINDLIMB
				10-30-01	7:04	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:04	3	HAIR LOSS LEFT FORELIMB
				10-30-01	7:05	3	HAIR LOSS LEFT HINDLIMB
				11-06-01	7:08	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:08	3	HAIR LOSS LEFT FORELIMB
				11-06-01	7:09	3	HAIR LOSS LEFT HINDLIMB
				11-13-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:24	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:49	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:49	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:49	1	HAIR LOSS LEFT HINDLIMB
				11-27-01	7:20	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:20	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	BODY/INTEGUMENT	12-04-01	6:14	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:14	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:14	2	HAIR LOSS LEFT HINDLIMB
				12-04-01	6:14	1	HAIR LOSS LEFT ABDOMINAL AREA
				12-11-01	7:23	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:23	3	HAIR LOSS LEFT FORELIMB
				12-18-01	6:02	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:02	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:11	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:11	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:11	2	HAIR LOSS LEFT HINDLIMB
				12-22-01	6:11	2	HAIR LOSS LEFT ABDOMINAL AREA
				12-22-01	6:12	2	HAIR LOSS LEFT LATERAL THORACIC AREA
				12-25-01	6:25	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:25	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:25	2	HAIR LOSS LEFT ABDOMINAL AREA
				12-25-01	6:26	3	HAIR LOSS LEFT HINDLIMB
				01-01-02	6:37	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:37	3	HAIR LOSS LEFT FORELIMB
				01-01-02	6:37	3	HAIR LOSS LEFT HINDLIMB
				01-01-02	6:38	2	HAIR LOSS LEFT ABDOMINAL AREA
				01-08-02	7:27	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:27	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:27	1	HAIR LOSS LEFT ABDOMINAL AREA
				01-08-02	7:27	2	HAIR LOSS LEFT HINDLIMB
				01-14-02	8:34	3	HAIR LOSS LEFT HINDLIMB
				01-14-02	8:34	2	HAIR LOSS LEFT ABDOMINAL AREA
				01-14-02	8:34	1	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:34	3	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74828	F	0 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74828	F	0 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74829	F	0 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74829	F	0 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74840	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74840	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74841	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74841	F	0 PPM	EYES/EARS/NOSE	10-30-01	7:06	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:26	1	DRIED RED MATERIAL AROUND RIGHT EYE
74841	F	0 PPM	ORAL/DENTAL	10-02-01	7:16	P	TEETH LONG, TRIMMED
				10-09-01	8:28	P	TEETH LONG, TRIMMED
				10-30-01	7:06	P	UPPER INCISORS MALALIGNED
74841	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74842	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74842	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74844	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74844	F	0 PPM	BODY/INTEGUMENT	09-04-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				09-04-01	6:58	1	HAIR LOSS LEFT FORELIMB
				09-11-01	6:52	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	6:52	1	HAIR LOSS LEFT FORELIMB
				09-18-01	6:30	1	HAIR LOSS RIGHT FORELIMB
				09-18-01	6:30	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844	F	0 PPM	BODY/INTEGUMENT	09-25-01	8:21	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:21	1	HAIR LOSS LEFT FORELIMB
				10-02-01	7:17	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:17	1	HAIR LOSS LEFT FORELIMB
				10-16-01	7:13	2	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:13	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:26	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:26	2	HAIR LOSS LEFT FORELIMB
				10-30-01	7:07	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:07	2	HAIR LOSS LEFT FORELIMB
				11-06-01	7:11	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:11	3	HAIR LOSS LEFT FORELIMB
				11-13-01	6:27	2	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:27	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:51	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:51	2	HAIR LOSS LEFT FORELIMB
				11-27-01	7:21	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:21	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:15	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:15	2	HAIR LOSS LEFT FORELIMB
				12-11-01	7:24	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:24	2	HAIR LOSS LEFT FORELIMB
				12-18-01	6:03	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:03	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:13	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:13	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:27	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:27	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:38	2	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844	F	0 PPM	BODY/INTEGUMENT	01-01-02	6:39	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:29	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:29	2	HAIR LOSS LEFT FORELIMB
				01-10-02	9:00	2	HAIR LOSS RIGHT FORELIMB
				01-10-02	9:00	2	HAIR LOSS LEFT FORELIMB
74844	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74845	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74845	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74854	F	0 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74854	F	0 PPM	BODY/INTEGUMENT	12-25-01	6:28	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:28	1	HAIR LOSS LEFT FORELIMB
74854	F	0 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74864	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74864	F	0 PPM	BODY/INTEGUMENT	12-22-01	6:13	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:15	P	SCABBING MANDIBULAR AREA
				12-25-01	6:29	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:29	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:39	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:30	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:30	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:35	2	HAIR LOSS RIGHT HINDLIMB
				01-14-02	8:35	1	HAIR LOSS RIGHT FORELIMB
74864	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74867	F	0 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74867	F	0 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
						NECROPSY
74742 F	500 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74742 F	500 PPM	BODY/INTEGUMENT	09-25-01	8:22	1	HAIR LOSS RIGHT FORELIMB
			09-25-01	8:23	1	HAIR LOSS LEFT FORELIMB
			10-09-01	8:31	1	HAIR LOSS RIGHT FORELIMB
			10-09-01	8:31	1	HAIR LOSS LEFT FORELIMB
			10-16-01	7:15	1	HAIR LOSS RIGHT FORELIMB
			10-16-01	7:15	1	HAIR LOSS LEFT FORELIMB
			10-23-01	6:28	1	HAIR LOSS RIGHT FORELIMB
			10-30-01	7:09	1	HAIR LOSS RIGHT FORELIMB
			11-06-01	7:13	1	HAIR LOSS LEFT FORELIMB
			11-06-01	7:13	1	HAIR LOSS RIGHT FORELIMB
			11-13-01	6:28	1	HAIR LOSS RIGHT FORELIMB
			11-20-01	6:52	1	HAIR LOSS RIGHT FORELIMB
			11-20-01	6:52	1	HAIR LOSS LEFT FORELIMB
			11-27-01	7:21	1	HAIR LOSS RIGHT FORELIMB
			11-27-01	7:21	1	HAIR LOSS LEFT FORELIMB
			12-04-01	6:16	1	HAIR LOSS RIGHT FORELIMB
			12-04-01	6:16	1	HAIR LOSS LEFT FORELIMB
			12-11-01	7:25	1	HAIR LOSS RIGHT FORELIMB
			12-11-01	7:25	2	HAIR LOSS LEFT FORELIMB
			12-18-01	6:03	2	HAIR LOSS RIGHT FORELIMB
			12-18-01	6:03	2	HAIR LOSS LEFT FORELIMB
			12-22-01	6:15	1	HAIR LOSS RIGHT FORELIMB
			12-22-01	6:15	1	HAIR LOSS LEFT FORELIMB
			12-25-01	6:29	2	HAIR LOSS RIGHT FORELIMB
			12-25-01	6:29	2	HAIR LOSS LEFT FORELIMB
			01-01-02	6:40	2	HAIR LOSS RIGHT FORELIMB
			01-01-02	6:40	1	HAIR LOSS LEFT FORELIMB

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74742	F	500 PPM	BODY/INTEGUMENT	01-08-02	7:31	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:31	2	HAIR LOSS LEFT FORELIMB
				01-11-02	8:26	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:26	2	HAIR LOSS RIGHT FORELIMB
74742	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74746	F	500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74746	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:30	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:30	1	HAIR LOSS LEFT FORELIMB
74746	F	500 PPM	EYES/EARS/NOSE	01-11-02	8:26	1	DRIED RED MATERIAL AROUND RIGHT EYE
74746	F	500 PPM	ORAL/DENTAL	01-11-02	8:25	P	UPPER INCISORS MALALIGNED
74746	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74753	F	500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74753	F	500 PPM	BODY/INTEGUMENT	01-08-02	7:32	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:32	1	HAIR LOSS LEFT FORELIMB
74753	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74761	F	500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74761	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74762	F	500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74762	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74765	F	500 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74765	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74782	F	500 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74782	F	500 PPM	BODY/INTEGUMENT	09-04-01	7:04	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782	F	500 PPM	BODY/INTEGUMENT	11-06-01	7:15	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:15	1	HAIR LOSS LEFT FORELIMB
				11-13-01	6:30	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				11-20-01	6:53	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:53	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:53	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				11-27-01	7:22	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-04-01	6:17	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-11-01	7:27	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-18-01	6:03	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:03	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:17	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:17	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:17	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-25-01	6:31	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:31	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:31	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-01-02	6:41	3	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-08-02	7:34	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:34	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:34	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-14-02	8:36	2	HAIR LOSS VENTRAL ABDOMINAL AREA
74782	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74785	F	500 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74785	F	500 PPM	BODY/INTEGUMENT	12-04-01	6:18	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:18	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:17	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:34	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:34	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:41	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:41	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:34	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:34	1	HAIR LOSS LEFT FORELIMB
74785	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74790	F	500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74790	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:34	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:34	1	HAIR LOSS LEFT FORELIMB
74790	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74796	F	500 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74796	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74797	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74797	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:35	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:35	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:41	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:41	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:35	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:35	1	HAIR LOSS LEFT FORELIMB
74797	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74798	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74798	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74802	F	500 PPM	DISPOSITION	01-14-02	8:45	P	SCHEDULED EUTHANASIA
74802	F	500 PPM	BODY/INTEGUMENT	12-11-01	7:28	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802	F	500 PPM	BODY/INTEGUMENT	12-11-01	7:28	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:04	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:36	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:36	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:42	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:42	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:37	1	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:37	1	HAIR LOSS LEFT FORELIMB
74802	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74805	F	500 PPM	DISPOSITION	12-07-01	13:35	P	EUTHANIZED IN EXTREMIS
74805	F	500 PPM	BODY/INTEGUMENT	12-07-01	13:30	P	RED WET DISCHARGES FROM VAGINA
				12-07-01	9:45	P	EYES AND EARS PALE IN COLOR, APPEARS TO BE HAVING TROUBLE WITH DELIVERY
74809	F	500 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74809	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74812	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74812	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:36	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:36	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:42	1	HAIR LOSS LEFT FORELIMB
74812	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74816	F	500 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74816	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74819	F	500 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74819	F	500 PPM	BODY/INTEGUMENT	10-23-01	6:31	1	HAIR LOSS LEFT FORELIMB
				10-30-01	7:16	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BODY/INTEGUMENT	10-30-01	7:16	1	HAIR LOSS LEFT FORELIMB
				11-06-01	7:17	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:17	1	HAIR LOSS LEFT FORELIMB
				11-20-01	6:55	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:37	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:37	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:42	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:42	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:37	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:37	1	HAIR LOSS LEFT FORELIMB
				01-10-02	9:01	1	HAIR LOSS RIGHT FORELIMB
				01-10-02	9:01	1	HAIR LOSS LEFT FORELIMB
74819	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74823	F	500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74823	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74824	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74824	F	500 PPM	BODY/INTEGUMENT	01-01-02	6:43	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:43	1	HAIR LOSS LEFT FORELIMB
74824	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74835	F	500 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74835	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74838	F	500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74838	F	500 PPM	BODY/INTEGUMENT	12-11-01	7:29	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:29	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:04	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838	F	500 PPM	BODY/INTEGUMENT	12-18-01	6:04	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:22	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:22	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:38	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:38	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:44	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:44	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:38	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:38	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:37	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:37	2	HAIR LOSS RIGHT FORELIMB
74838	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74839	F	500 PPM	DISPOSITION	01-10-02	9:09	P	SCHEDULED EUTHANASIA
74839	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74846	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74846	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74856	F	500 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74856	F	500 PPM	EYES/EARS/NOSE	10-23-01	6:34	P	RED AND SWOLLEN RIGHT EAR
				10-23-01	6:34	P	RED AND SWOLLEN LEFT EAR
				10-30-01	7:19	P	RED AND SWOLLEN LEFT EAR
				11-06-01	7:19	P	RED AND SWOLLEN RIGHT EAR
				11-06-01	7:19	P	RED AND SWOLLEN LEFT EAR
				11-13-01	6:36	P	RED AND SWOLLEN RIGHT EAR
				11-20-01	6:56	P	RED AND SWOLLEN RIGHT EAR
74856	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74859	F	500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74859	F	500 PPM	BODY/INTEGUMENT	09-11-01	7:06	P	APPARENT MECHANICAL INJURY DISTAL TAIL
				09-18-01	6:51	P	APPARENT MECHANICAL INJURY DISTAL TAIL
				12-25-01	6:39	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:39	1	HAIR LOSS LEFT FORELIMB
74859	F	500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74861	F	500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74861	F	500 PPM	BODY/INTEGUMENT	12-25-01	6:39	1	HAIR LOSS LEFT FORELIMB
74861	F	500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74863	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74863	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74869	F	500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74869	F	500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74873	F	500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74873	F	500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74738	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74738	F	1000 PPM	BODY/INTEGUMENT	12-15-01	6:43	P	FIRM MOVABLE MASS LEFT THORACIC AREA (20MM X 30MM)
				12-18-01	6:05	P	FIRM MOVABLE MASS LEFT THORACIC AREA (20MM X 30MM)
				12-22-01	6:23	P	FIRM MOVABLE MASS LEFT THORACIC AREA (20MM X 30MM)
				01-01-02	6:46	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:46	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:41	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:41	1	HAIR LOSS LEFT FORELIMB
74738	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74739	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74739	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74743	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74743	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74744	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74744	F	1000 PPM	BODY/INTEGUMENT	12-22-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:24	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:42	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:42	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:47	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:47	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:42	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:42	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:38	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:38	1	HAIR LOSS RIGHT FORELIMB
74744	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74748	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74748	F	1000 PPM	BODY/INTEGUMENT	09-25-01	8:37	1	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:37	1	HAIR LOSS LEFT FORELIMB
				10-02-01	7:28	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:28	1	HAIR LOSS LEFT FORELIMB
				10-09-01	8:45	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	8:45	1	HAIR LOSS LEFT FORELIMB
				10-16-01	7:25	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:25	1	HAIR LOSS LEFT FORELIMB
				10-23-01	6:37	1	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:37	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74748	F	1000 PPM	BODY/INTEGUMENT	10-30-01	7:22	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:22	1	HAIR LOSS LEFT FORELIMB
				11-06-01	7:24	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:39	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:58	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:30	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:30	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:05	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:05	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:24	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:24	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:42	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:42	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:47	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:47	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:43	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:43	1	HAIR LOSS LEFT FORELIMB
				01-15-02	7:33	2	HAIR LOSS RIGHT FORELIMB
				01-15-02	7:33	2	HAIR LOSS LEFT FORELIMB
74748	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74752	F	1000 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74752	F	1000 PPM	BODY/INTEGUMENT	12-11-01	7:30	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:30	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:05	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:05	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:25	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:25	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74752	F	1000 PPM	BODY/INTEGUMENT	01-08-02	7:44	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:44	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:24	1	HAIR LOSS RIGHT FORELIMB
				01-11-02	8:24	1	HAIR LOSS LEFT FORELIMB
74752	F	1000 PPM	EXCRETA	12-11-01	7:30	P	SOFT STOOL
74752	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74766	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74766	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74777	F	1000 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74777	F	1000 PPM	BODY/INTEGUMENT	09-25-01	8:39	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:29	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:29	1	HAIR LOSS LEFT FORELIMB
				10-09-01	8:45	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	8:45	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:31	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:31	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:06	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:43	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:48	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:44	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:44	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:23	2	HAIR LOSS RIGHT FORELIMB
74777	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74780	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74780	F	1000 PPM	BODY/INTEGUMENT	12-04-01	6:26	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:26	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74780	F	1000 PPM	BODY/INTEGUMENT	12-11-01	7:31	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:31	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:06	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:06	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:25	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:25	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:44	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:44	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:48	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:48	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:45	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:45	2	HAIR LOSS LEFT FORELIMB
				01-15-02	7:34	1	HAIR LOSS LEFT FORELIMB
74780	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74791	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74791	F	1000 PPM	EYES/EARS/NOSE	01-15-02	7:34	1	DRIED RED MATERIAL AROUND LEFT EYE
74791	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74793	F	1000 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74793	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74795	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74795	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74799	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74799	F	1000 PPM	BODY/INTEGUMENT	09-11-01	7:13	2	HAIR LOSS RIGHT FORELIMB
				09-11-01	7:13	2	HAIR LOSS LEFT FORELIMB
				09-11-01	7:14	3	HAIR LOSS RIGHT ABDOMINAL AREA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BODY/INTEGUMENT	09-11-01	7:14	2	HAIR LOSS LEFT ABDOMINAL AREA
				09-18-01	6:55	2	HAIR LOSS RIGHT ABDOMINAL AREA
				09-18-01	6:55	2	HAIR LOSS LEFT ABDOMINAL AREA
				09-25-01	8:42	3	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:42	3	HAIR LOSS LEFT FORELIMB
				09-25-01	8:42	1	HAIR LOSS RIGHT ABDOMINAL AREA
				09-25-01	8:43	1	HAIR LOSS LEFT ABDOMINAL AREA
				10-02-01	7:31	3	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:31	3	HAIR LOSS LEFT FORELIMB
				10-02-01	7:31	2	HAIR LOSS RIGHT ABDOMINAL AREA
				10-02-01	7:31	1	HAIR LOSS LEFT ABDOMINAL AREA
				10-09-01	8:47	3	HAIR LOSS RIGHT FORELIMB
				10-09-01	8:47	3	HAIR LOSS LEFT FORELIMB
				10-09-01	8:47	3	HAIR LOSS RIGHT ABDOMINAL AREA
				10-09-01	8:47	3	HAIR LOSS LEFT ABDOMINAL AREA
				10-16-01	7:27	3	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:27	3	HAIR LOSS LEFT FORELIMB
				10-16-01	7:27	3	HAIR LOSS RIGHT ABDOMINAL AREA
				10-16-01	7:27	2	HAIR LOSS LEFT ABDOMINAL AREA
				10-23-01	6:39	3	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:39	3	HAIR LOSS LEFT FORELIMB
				10-23-01	6:39	3	HAIR LOSS VENTRAL ABDOMINAL AREA
				10-23-01	6:40	2	HAIR LOSS BASE OF TAIL
				10-30-01	7:24	3	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:24	3	HAIR LOSS LEFT FORELIMB
				10-30-01	7:24	3	HAIR LOSS RIGHT ABDOMINAL AREA
				10-30-01	7:24	2	HAIR LOSS LEFT ABDOMINAL AREA
				10-30-01	7:24	2	HAIR LOSS BASE OF TAIL
				11-06-01	7:26	3	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BODY/INTEGUMENT	11-06-01	7:26	3	HAIR LOSS LEFT FORELIMB
				11-06-01	7:26	3	HAIR LOSS RIGHT ABDOMINAL AREA
				11-06-01	7:26	2	HAIR LOSS LEFT ABDOMINAL AREA
				11-13-01	6:41	3	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:41	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:42	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				11-20-01	6:59	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	6:59	2	HAIR LOSS LEFT FORELIMB
				11-20-01	6:59	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				11-27-01	7:26	2	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:26	2	HAIR LOSS LEFT FORELIMB
				11-27-01	7:26	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-04-01	6:27	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:27	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:27	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-11-01	7:31	2	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:31	2	HAIR LOSS LEFT FORELIMB
				12-18-01	6:06	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:06	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:27	3	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:27	3	HAIR LOSS LEFT FORELIMB
				12-22-01	6:27	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-25-01	6:44	3	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:44	3	HAIR LOSS LEFT FORELIMB
				12-25-01	6:44	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-01-02	6:48	3	HAIR LOSS LEFT FORELIMB
				01-01-02	6:48	3	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:48	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-08-02	7:47	3	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BODY/INTEGUMENT	01-08-02	7:47	3	HAIR LOSS LEFT FORELIMB
				01-08-02	7:47	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-10-02	9:02	3	HAIR LOSS RIGHT FORELIMB
				01-10-02	9:02	3	HAIR LOSS LEFT FORELIMB
				01-10-02	9:03	2	HAIR LOSS RIGHT ABDOMINAL AREA
74799	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74801	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74801	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74806	F	1000 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74806	F	1000 PPM	BODY/INTEGUMENT	12-25-01	6:45	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:45	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:49	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:49	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:48	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:48	2	HAIR LOSS LEFT FORELIMB
				01-11-02	8:26	1	HAIR LOSS LUMBAR AREA
74806	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74818	F	1000 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74818	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74820	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74820	F	1000 PPM	BODY/INTEGUMENT	01-14-02	8:38	1	HAIR LOSS RIGHT FORELIMB
				01-14-02	8:38	1	HAIR LOSS LEFT FORELIMB
74820	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74821	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74830	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74830	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74831	F	1000 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74831	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74834	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74834	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74847	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74847	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74848	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74848	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74849	F	1000 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74849	F	1000 PPM	BODY/INTEGUMENT	12-25-01	6:47	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:47	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:23	1	HAIR LOSS RIGHT FORELIMB
				01-11-02	8:23	1	HAIR LOSS LEFT FORELIMB
74849	F	1000 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74850	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74850	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74855	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74855	F	1000 PPM	BODY/INTEGUMENT	10-02-01	7:36	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855	F	1000 PPM	BODY/INTEGUMENT	10-02-01	7:36	1	HAIR LOSS LEFT FORELIMB
				11-13-01	6:45	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:45	1	HAIR LOSS LEFT FORELIMB
				11-20-01	7:01	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	7:01	1	HAIR LOSS LEFT FORELIMB
				11-20-01	7:02	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				11-27-01	7:28	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:28	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:33	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:33	1	HAIR LOSS LEFT FORELIMB
				12-11-01	7:33	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-11-01	7:33	1	HAIR LOSS LEFT HINDLIMB
				12-11-01	7:33	1	HAIR LOSS RIGHT HINDLIMB
				12-25-01	6:48	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:48	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:48	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-01-02	6:52	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:52	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:52	1	HAIR LOSS RIGHT HINDLIMB
				01-01-02	6:52	1	HAIR LOSS LEFT HINDLIMB
				01-01-02	6:52	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-08-02	7:53	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:53	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:53	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-08-02	7:53	1	HAIR LOSS VENTRAL NECK
				01-08-02	7:53	1	HAIR LOSS LEFT HINDLIMB
				01-08-02	7:53	1	HAIR LOSS RIGHT HINDLIMB
				01-10-02	9:03	1	HAIR LOSS RIGHT FORELIMB
				01-10-02	9:03	2	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855	F	1000 PPM	BODY/INTEGUMENT	01-10-02	9:04	2	HAIR LOSS VENTRAL ABDOMINAL AREA
				01-10-02	9:04	1	HAIR LOSS VENTRAL NECK
74855	F	1000 PPM	EYES/EARS/NOSE	10-16-01	7:33	1	DRIED RED MATERIAL AROUND RIGHT EYE
				10-23-01	6:42	2	DRIED RED MATERIAL AROUND RIGHT EYE
				10-30-01	7:29	2	DRIED RED MATERIAL AROUND RIGHT EYE
				11-06-01	7:30	2	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:45	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:45	1	DRIED RED MATERIAL AROUND LEFT EYE
				11-13-01	6:46	2	HAIR LOSS AROUND RIGHT EYE
				11-20-01	7:02	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-27-01	7:28	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-04-01	6:29	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-11-01	7:33	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-11-01	7:33	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-18-01	6:07	2	DRIED RED MATERIAL AROUND RIGHT EYE
				12-18-01	6:07	1	DRIED RED MATERIAL AROUND LEFT EYE
				12-22-01	6:30	3	DRIED RED MATERIAL AROUND RIGHT EYE
				12-22-01	6:30	3	DRIED RED MATERIAL AROUND LEFT EYE
				12-25-01	6:49	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	6:49	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-01-02	6:52	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-01-02	6:52	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-08-02	7:52	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-08-02	7:52	1	DRIED RED MATERIAL AROUND LEFT EYE
				01-10-02	9:05	2	DRIED RED MATERIAL AROUND RIGHT EYE
				01-10-02	9:05	2	DRIED RED MATERIAL AROUND LEFT EYE
74855	F	1000 PPM	ORAL/DENTAL	10-09-01	8:54	P	TEETH LONG, TRIMMED
				10-09-01	8:54	P	UPPER INCISORS MALALIGNED
				10-16-01	7:33	P	UPPER INCISORS MALALIGNED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855	F	1000 PPM	ORAL/DENTAL	10-23-01	6:43	P	UPPER INCISORS MALALIGNED
				10-23-01	6:43	P	TEETH LONG, TRIMMED
				11-06-01	7:30	P	TEETH LONG, TRIMMED
				11-06-01	7:30	P	UPPER INCISORS MALALIGNED
				12-18-01	6:07	P	UPPER INCISORS MALALIGNED
				12-25-01	6:48	P	TEETH LONG, TRIMMED
				12-25-01	6:48	P	UPPER INCISORS MALALIGNED
				01-01-02	6:51	P	TEETH LONG, TRIMMED
				01-01-02	6:51	P	UPPER INCISORS MALALIGNED
				01-08-02	7:53	P	TEETH LONG, TRIMMED
74855	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74858	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74858	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74865	F	1000 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74865	F	1000 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74868	F	1000 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74868	F	1000 PPM	BODY/INTEGUMENT	09-04-01	7:26	1	HAIR LOSS RIGHT FORELIMB
				09-18-01	6:58	2	HAIR LOSS RIGHT FORELIMB
				09-18-01	6:58	2	HAIR LOSS LEFT FORELIMB
				09-25-01	8:50	2	HAIR LOSS RIGHT FORELIMB
				09-25-01	8:50	2	HAIR LOSS LEFT FORELIMB
				10-02-01	7:36	2	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:36	2	HAIR LOSS LEFT FORELIMB
				10-09-01	8:55	2	HAIR LOSS RIGHT FORELIMB
				10-09-01	8:55	2	HAIR LOSS LEFT FORELIMB
				10-16-01	7:35	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868	F	1000 PPM	BODY/INTEGUMENT	10-16-01	7:35	2	HAIR LOSS LEFT FORELIMB
				10-23-01	6:44	2	HAIR LOSS RIGHT FORELIMB
				10-23-01	6:44	2	HAIR LOSS LEFT FORELIMB
				10-30-01	7:30	2	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:30	2	HAIR LOSS LEFT FORELIMB
				11-06-01	7:31	2	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:31	2	HAIR LOSS LEFT FORELIMB
				11-13-01	6:47	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:47	1	HAIR LOSS LEFT FORELIMB
				11-20-01	7:02	2	HAIR LOSS RIGHT FORELIMB
				11-20-01	7:02	2	HAIR LOSS LEFT FORELIMB
				12-04-01	6:29	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:29	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:31	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:31	2	HAIR LOSS LEFT FORELIMB
				12-25-01	6:49	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:50	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:52	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:52	2	HAIR LOSS LEFT FORELIMB
				01-08-02	7:54	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:54	1	HAIR LOSS LEFT FORELIMB
				01-10-02	9:02	2	HAIR LOSS RIGHT FORELIMB
				01-10-02	9:02	2	HAIR LOSS LEFT FORELIMB
74868	F	1000 PPM	EYES/EARS/NOSE	10-23-01	6:44	2	DRIED RED MATERIAL AROUND NOSE
74868	F	1000 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74871	F	1000 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74871	F	1000 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74747	F	2500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74747	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74750	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74750	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74751	F	2500 PPM	DISPOSITION	01-11-02	8:29	P	SCHEDULED EUTHANASIA
74751	F	2500 PPM	EYES/EARS/NOSE	12-22-01	6:32	P	RED AND SWOLLEN RIGHT EAR
				12-22-01	6:32	P	RED AND SWOLLEN LEFT EAR
74751	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74754	F	2500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74754	F	2500 PPM	BODY/INTEGUMENT	01-10-02	9:07	1	HAIR LOSS LUMBAR AREA
74754	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74755	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74755	F	2500 PPM	BODY/INTEGUMENT	09-25-01	8:53	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:39	1	HAIR LOSS RIGHT FORELIMB
74755	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74768	F	2500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74768	F	2500 PPM	EYES/EARS/NOSE	10-23-01	6:46	P	RED AND SWOLLEN RIGHT EAR
				10-23-01	6:46	P	RED AND SWOLLEN LEFT EAR
				10-30-01	7:33	P	RED AND SWOLLEN RIGHT EAR
				10-30-01	7:33	P	RED AND SWOLLEN LEFT EAR
74768	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74769	F	2500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74769	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74770	F	2500 PPM	DISPOSITION	01-10-02	9:11	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74770	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74781	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74781	F	2500 PPM	BODY/INTEGUMENT	11-20-01	7:03	1	HAIR LOSS RIGHT FORELIMB
				11-27-01	7:30	1	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:30	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:35	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:35	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:09	2	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:09	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:51	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:51	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:54	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:54	1	HAIR LOSS LEFT FORELIMB
				01-08-02	7:59	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	7:59	1	HAIR LOSS LEFT FORELIMB
				01-14-02	8:39	2	HAIR LOSS LEFT FORELIMB
				01-14-02	8:39	3	HAIR LOSS RIGHT FORELIMB
74781	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74784	F	2500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74784	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74786	F	2500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74786	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74787	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74787	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74792	F	2500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74800	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74800	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74803	F	2500 PPM	DISPOSITION	01-10-02	9:11	P	SCHEDULED EUTHANASIA
74803	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74807	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74807	F	2500 PPM	EYES/EARS/NOSE	12-04-01	6:32	1	DRIED RED MATERIAL AROUND RIGHT EYE
74807	F	2500 PPM	ORAL/DENTAL	12-04-01	6:32	P	UPPER INCISORS MALALIGNED
74807	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74811	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74811	F	2500 PPM	BODY/INTEGUMENT	01-01-02	6:55	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:55	1	HAIR LOSS LEFT FORELIMB
74811	F	2500 PPM	EYES/EARS/NOSE	10-23-01	6:49	3	DRIED RED MATERIAL AROUND RIGHT EYE
				10-30-01	7:38	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-06-01	7:38	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-13-01	6:55	2	DRIED RED MATERIAL AROUND RIGHT EYE
				11-20-01	7:04	1	DRIED RED MATERIAL AROUND RIGHT EYE
				11-27-01	7:31	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-04-01	6:32	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-11-01	7:36	2	DRIED RED MATERIAL AROUND RIGHT EYE
				12-18-01	6:10	1	DRIED RED MATERIAL AROUND RIGHT EYE
				12-22-01	6:35	2	DRIED RED MATERIAL AROUND RIGHT EYE
				12-25-01	6:53	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-01-02	6:55	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-01-02	6:55	1	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74811	F	2500 PPM	EYES/EARS/NOSE	01-08-02	8:02	1	DRIED RED MATERIAL AROUND RIGHT EYE
				01-14-02	8:40	1	DRIED RED MATERIAL AROUND RIGHT EYE
74811	F	2500 PPM	ORAL/DENTAL	10-23-01	6:49	P	UPPER INCISORS MALALIGNED
				10-23-01	6:49	P	TEETH LONG, TRIMMED
				10-30-01	7:38	P	TEETH LONG, TRIMMED
				10-30-01	7:38	P	UPPER INCISORS MALALIGNED
				11-06-01	7:37	P	TEETH LONG, TRIMMED
				11-06-01	7:37	P	UPPER INCISORS MALALIGNED
				11-13-01	6:55	P	TEETH LONG, TRIMMED
				11-13-01	6:55	P	UPPER INCISORS MALALIGNED
				11-20-01	7:04	P	UPPER INCISORS MALALIGNED
				12-04-01	6:32	P	UPPER INCISORS MALALIGNED
				12-11-01	7:36	P	UPPER INCISORS MALALIGNED
				12-11-01	7:36	P	TEETH LONG, TRIMMED
				12-18-01	6:09	P	UPPER INCISORS MALALIGNED
				12-18-01	6:10	P	TEETH LONG, TRIMMED
				12-22-01	6:36	P	UPPER INCISORS MALALIGNED
				12-25-01	6:53	P	TEETH LONG, TRIMMED
				12-25-01	6:53	P	UPPER INCISORS MALALIGNED
				01-01-02	6:55	P	TEETH LONG, TRIMMED
				01-01-02	6:55	P	UPPER INCISORS MALALIGNED
				01-08-02	8:02	P	TEETH LONG, TRIMMED
				01-08-02	8:02	P	UPPER INCISORS MALALIGNED
74811	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74813	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74813	F	2500 PPM	BODY/INTEGUMENT	01-01-02	6:56	1	HAIR LOSS RIGHT FORELIMB
74813	F	2500 PPM	EYES/EARS/NOSE	10-23-01	6:50	2	DRIED RED MATERIAL AROUND RIGHT EYE
				10-30-01	7:39	1	DRIED RED MATERIAL AROUND RIGHT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS				
74813	F	2500 PPM	EYES/EARS/NOSE	11-06-01	7:38	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				11-13-01	6:55	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				11-20-01	7:05	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				12-04-01	6:33	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				12-11-01	7:37	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				12-18-01	6:10	2	DRIED RED MATERIAL AROUND RIGHT EYE				
				12-22-01	6:36	2	DRIED RED MATERIAL AROUND RIGHT EYE				
				12-25-01	6:54	2	DRIED RED MATERIAL AROUND RIGHT EYE				
				01-01-02	6:56	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				01-08-02	8:02	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				01-15-02	7:40	1	DRIED RED MATERIAL AROUND RIGHT EYE				
				74813	F	2500 PPM	ORAL/DENTAL	10-23-01	6:50	P	TEETH LONG, TRIMMED
								10-23-01	6:50	P	UPPER INCISORS MALALIGNED
								10-30-01	7:38	P	TEETH LONG, TRIMMED
								10-30-01	7:38	P	UPPER INCISORS MALALIGNED
								11-06-01	7:38	P	TEETH LONG, TRIMMED
								11-06-01	7:38	P	UPPER INCISORS MALALIGNED
11-13-01	6:55	P	UPPER INCISORS MALALIGNED								
11-20-01	7:05	P	UPPER INCISORS MALALIGNED								
11-20-01	7:05	P	TEETH LONG, TRIMMED								
12-04-01	6:33	P	UPPER INCISORS MALALIGNED								
12-11-01	7:37	P	TEETH LONG, TRIMMED								
12-11-01	7:37	P	UPPER INCISORS MALALIGNED								
12-18-01	6:10	P	UPPER INCISORS MALALIGNED								
12-25-01	6:54	P	TEETH LONG, TRIMMED								
12-25-01	6:54	P	UPPER INCISORS MALALIGNED								
01-01-02	6:56	P	TEETH LONG, TRIMMED								
01-01-02	6:56	P	UPPER INCISORS MALALIGNED								
01-08-02	8:02	P	TEETH LONG, TRIMMED								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74813	F	2500 PPM	ORAL/DENTAL	01-08-02	8:02	P	UPPER INCISORS MALALIGNED
				01-15-02	7:39	P	UPPER INCISORS MALALIGNED
74813	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74817	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74817	F	2500 PPM	BODY/INTEGUMENT	12-25-01	6:54	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:56	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:56	1	HAIR LOSS LEFT FORELIMB
				01-08-02	8:03	1	HAIR LOSS RIGHT FORELIMB
				01-08-02	8:03	1	HAIR LOSS LEFT FORELIMB
74817	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74822	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74822	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74827	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74827	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74832	F	2500 PPM	DISPOSITION	01-11-02	8:27	P	SCHEDULED EUTHANASIA
74832	F	2500 PPM	BODY/INTEGUMENT	09-04-01	7:35	1	HAIR LOSS RIGHT FORELIMB
				09-04-01	7:35	1	HAIR LOSS LEFT FORELIMB
				09-11-01	7:26	1	HAIR LOSS RIGHT FORELIMB
				09-11-01	7:26	1	HAIR LOSS LEFT FORELIMB
				10-02-01	7:43	1	HAIR LOSS RIGHT FORELIMB
				10-02-01	7:43	1	HAIR LOSS LEFT FORELIMB
				10-09-01	9:09	1	HAIR LOSS RIGHT FORELIMB
				10-09-01	9:09	1	HAIR LOSS LEFT FORELIMB
				10-16-01	7:42	1	HAIR LOSS RIGHT FORELIMB
				10-16-01	7:42	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BODY/INTEGUMENT	10-30-01	7:40	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:40	1	HAIR LOSS LEFT FORELIMB
				11-06-01	7:39	1	HAIR LOSS VENTRAL NECK
				12-04-01	6:33	2	HAIR LOSS RIGHT FORELIMB
				12-04-01	6:34	2	HAIR LOSS LEFT FORELIMB
				12-11-01	7:37	1	HAIR LOSS RIGHT FORELIMB
				12-11-01	7:37	1	HAIR LOSS LEFT FORELIMB
				12-18-01	6:11	1	HAIR LOSS RIGHT FORELIMB
				12-18-01	6:11	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:38	2	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:38	2	HAIR LOSS LEFT FORELIMB
				12-22-01	6:38	1	HAIR LOSS VENTRAL ABDOMINAL AREA
				12-25-01	6:55	2	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:55	2	HAIR LOSS LEFT FORELIMB
				01-01-02	6:56	2	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:56	2	HAIR LOSS LEFT FORELIMB
				01-08-02	8:04	2	HAIR LOSS RIGHT FORELIMB
				01-08-02	8:04	2	HAIR LOSS LEFT FORELIMB
				01-08-02	8:04	1	HAIR LOSS LEFT HINDLIMB
				01-08-02	8:04	1	HAIR LOSS RIGHT HINDLIMB
				01-11-02	8:23	2	HAIR LOSS RIGHT FORELIMB
				01-11-02	8:23	2	HAIR LOSS LEFT FORELIMB
74832	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74833	F	2500 PPM	DISPOSITION	01-14-02	8:46	P	SCHEDULED EUTHANASIA
74833	F	2500 PPM	SPECIAL II	01-14-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74836	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74836	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
							NECROPSY
74853	F	2500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74853	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74857	F	2500 PPM	DISPOSITION	01-10-02	9:10	P	SCHEDULED EUTHANASIA
74857	F	2500 PPM	EYES/EARS/NOSE	10-23-01	6:53	3	DRIED RED MATERIAL AROUND LEFT EYE
				10-30-01	7:42	2	DRIED RED MATERIAL AROUND RIGHT EYE
74857	F	2500 PPM	SPECIAL II	01-10-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74860	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74860	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74862	F	2500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74862	F	2500 PPM	BODY/INTEGUMENT	10-09-01	9:12	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:42	1	HAIR LOSS RIGHT FORELIMB
				10-30-01	7:42	1	HAIR LOSS LEFT FORELIMB
				11-06-01	7:41	1	HAIR LOSS RIGHT FORELIMB
				11-06-01	7:41	1	HAIR LOSS LEFT FORELIMB
				11-13-01	6:58	1	HAIR LOSS RIGHT FORELIMB
				11-13-01	6:58	1	HAIR LOSS LEFT FORELIMB
				11-20-01	7:06	1	HAIR LOSS RIGHT FORELIMB
				11-20-01	7:06	1	HAIR LOSS LEFT FORELIMB
				12-22-01	6:40	1	HAIR LOSS RIGHT FORELIMB
				12-22-01	6:40	1	HAIR LOSS LEFT FORELIMB
				12-25-01	6:56	1	HAIR LOSS RIGHT FORELIMB
				12-25-01	6:56	1	HAIR LOSS LEFT FORELIMB
				01-01-02	6:58	1	HAIR LOSS RIGHT FORELIMB
				01-01-02	6:58	1	HAIR LOSS LEFT FORELIMB
				01-08-02	8:06	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 128 (F0 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 09-04-01 TO 01-15-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74862	F	2500 PPM	BODY/INTEGUMENT	01-08-02	8:06	1	HAIR LOSS LEFT FORELIMB
				01-11-02	8:24	2	HAIR LOSS RIGHT FORELIMB
				01-11-02	8:24	2	HAIR LOSS LEFT FORELIMB
74862	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74866	F	2500 PPM	DISPOSITION	01-15-02	7:50	P	SCHEDULED EUTHANASIA
74866	F	2500 PPM	SPECIAL II	01-15-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74870	F	2500 PPM	DISPOSITION	01-11-02	8:28	P	SCHEDULED EUTHANASIA
74870	F	2500 PPM	SPECIAL II	01-11-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 09/25/2002

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:06	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	NO REACTION TO STIMULUS
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-13-01	11:15	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	NO REACTION TO STIMULUS
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	NO REACTION TO STIMULUS
				09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:39	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	BEHAVIOR/CNS	09-24-01	11:22	P	NO REACTION TO STIMULUS
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	10-11-01	11:30	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-13-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-14-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	NO REACTION TO STIMULUS
			10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:00	P	NO REACTION TO STIMULUS
			10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-21-01	10:24	P	NO REACTION TO STIMULUS
			10-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-25-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-27-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74603	M	0 PPM	BEHAVIOR/CNS	10-28-01	10:56	P	STIMULUS WAS HEARD
				10-29-01	11:05	P	NO REACTION TO STIMULUS
				10-30-01	11:00	P	NO REACTION TO STIMULUS
				10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:25	P	NO REACTION TO STIMULUS
				11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-10-01	10:00	P	NO REACTION TO STIMULUS
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	11-17-01	11:15	P	STIMULUS WAS HEARD
						SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-18-01	11:19	P	NO REACTION TO STIMULUS
			11-19-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
						VOCALIZATION)
			11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-21-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-22-01	10:03	P	NO REACTION TO STIMULUS
			11-23-01	10:02	P	NO REACTION TO STIMULUS
			11-24-01	10:28	P	NO REACTION TO STIMULUS
			11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
						VOCALIZATION)
			11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-28-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			12-01-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			12-02-01	11:08	P	NO REACTION TO STIMULUS
			12-03-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	BEHAVIOR/CNS	12-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-09-01	10:50	P	NO REACTION TO STIMULUS
				12-10-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:45	P	NO REACTION TO STIMULUS
				12-13-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:50	P	NO REACTION TO STIMULUS
				12-15-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:25	P	NO REACTION TO STIMULUS
				12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:05	P	NO REACTION TO STIMULUS
				12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74603	M	0 PPM	BEHAVIOR/CNS	12-22-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-23-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	NO REACTION TO STIMULUS
				01-02-02	11:03	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-09-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P NO REACTION TO STIMULUS
				09-05-01	11:18	P NO REACTION TO STIMULUS
				09-06-01	11:32	P NO REACTION TO STIMULUS
				09-07-01	11:23	P NO REACTION TO STIMULUS
				09-08-01	11:06	P NO REACTION TO STIMULUS
				09-09-01	10:18	P NO REACTION TO STIMULUS
				09-10-01	11:22	P NO REACTION TO STIMULUS
				09-11-01	11:32	P NO REACTION TO STIMULUS
				09-12-01	11:30	P NO REACTION TO STIMULUS
				09-13-01	11:15	P NO REACTION TO STIMULUS
				09-14-01	11:20	P NO REACTION TO STIMULUS
				09-15-01	10:42	P NO REACTION TO STIMULUS
				09-16-01	10:50	P NO REACTION TO STIMULUS
				09-17-01	11:28	P NO REACTION TO STIMULUS
				09-18-01	11:30	P NO REACTION TO STIMULUS
				09-19-01	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:12	P NO REACTION TO STIMULUS
				09-21-01	11:22	P NO REACTION TO STIMULUS
				09-22-01	11:05	P NO REACTION TO STIMULUS
				09-23-01	10:39	P NO REACTION TO STIMULUS
				09-24-01	11:22	P NO REACTION TO STIMULUS
				09-25-01	12:41	P NO REACTION TO STIMULUS
				09-26-01	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P NO REACTION TO STIMULUS
				09-28-01	11:15	P NO REACTION TO STIMULUS
				09-29-01	10:42	P NO REACTION TO STIMULUS
				09-30-01	10:44	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS	10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	NO REACTION TO STIMULUS
				10-03-01	11:11	P	NO REACTION TO STIMULUS
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	NO REACTION TO STIMULUS
				10-06-01	10:39	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-07-01	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	NO REACTION TO STIMULUS
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:30	P	NO REACTION TO STIMULUS
				10-12-01	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-13-01	10:35	P	NO REACTION TO STIMULUS
				10-14-01	10:35	P	NO REACTION TO STIMULUS
				10-15-01	10:55	P	NO REACTION TO STIMULUS
				10-16-01	11:43	P	NO REACTION TO STIMULUS
				10-17-01	10:58	P	NO REACTION TO STIMULUS
				10-18-01	11:00	P	NO REACTION TO STIMULUS
				10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:32	P	NO REACTION TO STIMULUS
				10-21-01	10:24	P	NO REACTION TO STIMULUS
				10-22-01	11:20	P	NO REACTION TO STIMULUS
				10-23-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS	10-24-01	11:05	P	NO REACTION TO STIMULUS
				10-25-01	11:00	P	NO REACTION TO STIMULUS
				10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:49	P	NO REACTION TO STIMULUS
				10-28-01	10:56	P	NO REACTION TO STIMULUS
				10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:00	P	NO REACTION TO STIMULUS
				10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:25	P	NO REACTION TO STIMULUS
				11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:50	P	NO REACTION TO STIMULUS
				11-04-01	10:40	P	NO REACTION TO STIMULUS
				11-05-01	11:00	P	NO REACTION TO STIMULUS
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	NO REACTION TO STIMULUS
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	NO REACTION TO STIMULUS
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	NO REACTION TO STIMULUS
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS			VOCALIZATION)
			11-17-01	11:15	P	NO REACTION TO STIMULUS
			11-18-01	11:19	P	NO REACTION TO STIMULUS
			11-19-01	10:43	P	NO REACTION TO STIMULUS
			11-20-01	10:55	P	NO REACTION TO STIMULUS
			11-21-01	10:48	P	NO REACTION TO STIMULUS
			11-22-01	10:03	P	NO REACTION TO STIMULUS
			11-23-01	10:02	P	NO REACTION TO STIMULUS
			11-24-01	10:28	P	NO REACTION TO STIMULUS
			11-25-01	10:25	P	NO REACTION TO STIMULUS
			11-26-01	11:10	P	NO REACTION TO STIMULUS
			11-27-01	11:26	P	NO REACTION TO STIMULUS
			11-28-01	10:30	P	NO REACTION TO STIMULUS
			11-29-01	10:45	P	NO REACTION TO STIMULUS
			11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-01-01	11:02	P	NO REACTION TO STIMULUS
			12-02-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-03-01	10:50	P	NO REACTION TO STIMULUS
			12-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-06-01	10:45	P	NO REACTION TO STIMULUS
			12-07-01	10:30	P	NO REACTION TO STIMULUS
			12-08-01	10:42	P	NO REACTION TO STIMULUS
			12-09-01	10:50	P	NO REACTION TO STIMULUS
			12-10-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS	12-11-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:00	P	NO REACTION TO STIMULUS
				12-14-01	10:50	P	NO REACTION TO STIMULUS
				12-15-01	10:25	P	NO REACTION TO STIMULUS
				12-16-01	10:25	P	NO REACTION TO STIMULUS
				12-17-01	10:52	P	NO REACTION TO STIMULUS
				12-18-01	11:05	P	NO REACTION TO STIMULUS
				12-19-01	10:45	P	NO REACTION TO STIMULUS
				12-20-01	10:53	P	NO REACTION TO STIMULUS
				12-21-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	NO REACTION TO STIMULUS
				12-28-01	11:01	P	NO REACTION TO STIMULUS
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	NO REACTION TO STIMULUS
				01-02-02	11:03	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74656	M	0 PPM	BEHAVIOR/CNS	01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
74665	M	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:05	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:15	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	NO REACTION TO STIMULUS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74665	M	0 PPM	BEHAVIOR/CNS	09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	NO REACTION TO STIMULUS
				09-21-01	11:22	P	NO REACTION TO STIMULUS
				09-22-01	11:05	P	NO REACTION TO STIMULUS
				09-23-01	10:39	P	NO REACTION TO STIMULUS
				09-24-01	11:22	P	NO REACTION TO STIMULUS
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	NO REACTION TO STIMULUS
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	NO REACTION TO STIMULUS
				09-29-01	10:42	P	NO REACTION TO STIMULUS
				09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-03-01	11:11	P	NO REACTION TO STIMULUS
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-06-01	10:39	P	NO REACTION TO STIMULUS
				10-07-01	10:32	P	NO REACTION TO STIMULUS
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	NO REACTION TO STIMULUS
				10-10-01	11:45	P	NO REACTION TO STIMULUS
				10-11-01	11:30	P	NO REACTION TO STIMULUS
				10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74665	M	0 PPM	10-13-01	10:35	P	STIMULUS WAS HEARD
						SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-14-01	10:35	P	NO REACTION TO STIMULUS
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	NO REACTION TO STIMULUS
			10-17-01	10:58	P	NO REACTION TO STIMULUS
			10-18-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-19-01	11:05	P	NO REACTION TO STIMULUS
			10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-21-01	10:24	P	NO REACTION TO STIMULUS
			10-22-01	11:20	P	NO REACTION TO STIMULUS
			10-23-01	11:00	P	NO REACTION TO STIMULUS
			10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-25-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-27-01	10:49	P	NO REACTION TO STIMULUS
			10-28-01	10:56	P	NO REACTION TO STIMULUS
			10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			10-30-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
						VOCALIZATION)
			10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
						VOCALIZATION)
			11-01-01	10:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74665	M	0 PPM	BEHAVIOR/CNS	11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74665	M	0 PPM	BEHAVIOR/CNS	11-20-01	10:55	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:02	P	NO REACTION TO STIMULUS
				11-24-01	10:28	P	NO REACTION TO STIMULUS
				11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:10	P	NO REACTION TO STIMULUS
				11-27-01	11:26	P	NO REACTION TO STIMULUS
				11-28-01	10:30	P	NO REACTION TO STIMULUS
				11-29-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:02	P	NO REACTION TO STIMULUS
				12-02-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-03-01	10:50	P	NO REACTION TO STIMULUS
				12-04-01	10:55	P	NO REACTION TO STIMULUS
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:45	P	NO REACTION TO STIMULUS
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-09-01	10:50	P	NO REACTION TO STIMULUS
				12-10-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74665	M	0 PPM	BEHAVIOR/CNS	12-11-01	11:50	P	NO REACTION TO STIMULUS
				12-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:25	P	NO REACTION TO STIMULUS
				12-16-01	10:25	P	NO REACTION TO STIMULUS
				12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:05	P	NO REACTION TO STIMULUS
				12-19-01	10:45	P	NO REACTION TO STIMULUS
				12-20-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	10:55	P	NO REACTION TO STIMULUS
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	NO REACTION TO STIMULUS
				12-28-01	11:01	P	NO REACTION TO STIMULUS
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-31-01	10:42	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74665	M	0 PPM	BEHAVIOR/CNS	01-01-02	11:40	P	NO REACTION TO STIMULUS
				01-02-02	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-03-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
74681	M	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	NO REACTION TO STIMULUS
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:06	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	NO REACTION TO STIMULUS
				09-10-01	11:22	P	NO REACTION TO STIMULUS
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	NO REACTION TO STIMULUS
				09-13-01	11:15	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	NO REACTION TO STIMULUS
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74681	M	0 PPM	BEHAVIOR/CNS	09-17-01	11:28	P	NO REACTION TO STIMULUS
				09-18-01	11:30	P	NO REACTION TO STIMULUS
				09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	NO REACTION TO STIMULUS
				09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:05	P	NO REACTION TO STIMULUS
				09-23-01	10:39	P	NO REACTION TO STIMULUS
				09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	NO REACTION TO STIMULUS
				09-29-01	10:42	P	NO REACTION TO STIMULUS
				09-30-01	10:44	P	NO REACTION TO STIMULUS
				10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	NO REACTION TO STIMULUS
				10-03-01	11:11	P	NO REACTION TO STIMULUS
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:16	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74681	M	0 PPM	10-09-01	13:00	P	NO REACTION TO STIMULUS
			10-10-01	11:45	P	NO REACTION TO STIMULUS
			10-11-01	11:30	P	NO REACTION TO STIMULUS
			10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:35	P	NO REACTION TO STIMULUS
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	NO REACTION TO STIMULUS
			10-17-01	10:58	P	NO REACTION TO STIMULUS
			10-18-01	11:00	P	NO REACTION TO STIMULUS
			10-19-01	11:05	P	NO REACTION TO STIMULUS
			10-20-01	10:32	P	NO REACTION TO STIMULUS
			10-21-01	10:24	P	NO REACTION TO STIMULUS
			10-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	NO REACTION TO STIMULUS
			10-25-01	11:00	P	NO REACTION TO STIMULUS
			10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-27-01	10:49	P	NO REACTION TO STIMULUS
			10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:05	P	NO REACTION TO STIMULUS
			10-30-01	11:00	P	NO REACTION TO STIMULUS
			10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74681	M	0 PPM	BEHAVIOR/CNS	11-01-01	10:25	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	NO REACTION TO STIMULUS
				11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:00	P	NO REACTION TO STIMULUS
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	NO REACTION TO STIMULUS
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:00	P	NO REACTION TO STIMULUS
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	NO REACTION TO STIMULUS
				11-13-01	10:55	P	NO REACTION TO STIMULUS
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	NO REACTION TO STIMULUS
				11-17-01	11:15	P	NO REACTION TO STIMULUS
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	NO REACTION TO STIMULUS
				11-20-01	10:55	P	NO REACTION TO STIMULUS
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	NO REACTION TO STIMULUS
				11-23-01	10:02	P	NO REACTION TO STIMULUS
				11-24-01	10:28	P	NO REACTION TO STIMULUS
				11-25-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74681	M	0 PPM	BEHAVIOR/CNS	11-27-01	11:26	P NO REACTION TO STIMULUS
				11-28-01	10:30	P NO REACTION TO STIMULUS
				11-29-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:02	P NO REACTION TO STIMULUS
				12-02-01	11:08	P NO REACTION TO STIMULUS
				12-03-01	10:50	P NO REACTION TO STIMULUS
				12-04-01	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:00	P NO REACTION TO STIMULUS
				12-06-01	10:45	P NO REACTION TO STIMULUS
				12-07-01	10:30	P NO REACTION TO STIMULUS
				12-08-01	10:42	P NO REACTION TO STIMULUS
				12-09-01	10:50	P NO REACTION TO STIMULUS
				12-10-01	10:50	P NO REACTION TO STIMULUS
				12-11-01	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:00	P NO REACTION TO STIMULUS
				12-14-01	10:50	P NO REACTION TO STIMULUS
				12-15-01	10:25	P NO REACTION TO STIMULUS
				12-16-01	10:25	P NO REACTION TO STIMULUS
				12-17-01	10:52	P NO REACTION TO STIMULUS
				12-18-01	11:05	P NO REACTION TO STIMULUS
				12-19-01	10:45	P NO REACTION TO STIMULUS
				12-20-01	10:53	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74681	M	0 PPM	BEHAVIOR/CNS	12-21-01	10:55	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:01	P	NO REACTION TO STIMULUS
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:03	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				74698	M	0 PPM	BEHAVIOR/CNS
09-04-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	09-06-01	11:32	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-07-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-08-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-15-01	10:42	P	NO REACTION TO STIMULUS
			09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	09-21-01	11:22	P	STIMULUS WAS HEARD
			09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-23-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-27-01	11:27	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-29-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-01-01	11:11	P	NO REACTION TO STIMULUS
			10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:11	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74698	M	0 PPM	BEHAVIOR/CNS	10-06-01	10:39	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				10-07-01	10:32	P	NO REACTION TO STIMULUS
				10-08-01	14:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:35	P	NO REACTION TO STIMULUS
				10-14-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	10-22-01	11:20	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-25-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-27-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-01-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:00	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	BEHAVIOR/CNS	11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	NO REACTION TO STIMULUS
				11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74698	M	0 PPM	BEHAVIOR/CNS	11-23-01	10:02	P	STIMULUS WAS HEARD
				11-24-01	10:28	P	NO REACTION TO STIMULUS
				11-25-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:02	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-02-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	10:55	P	NO REACTION TO STIMULUS
				12-05-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-06-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	12-09-01	10:50	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-10-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-11-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-13-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-14-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-15-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-16-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-20-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-21-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-23-01	10:15	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74698	M	0 PPM	BEHAVIOR/CNS	12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-04-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-05-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-10-02	11:35	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74700	M	0 PPM	09-04-01	11:32	P	NO REACTION TO STIMULUS
			09-05-01	11:18	P	NO REACTION TO STIMULUS
			09-06-01	11:32	P	NO REACTION TO STIMULUS
			09-07-01	11:23	P	NO REACTION TO STIMULUS
			09-08-01	11:05	P	NO REACTION TO STIMULUS
			09-09-01	10:18	P	NO REACTION TO STIMULUS
			09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-13-01	11:15	P	NO REACTION TO STIMULUS
			09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-15-01	10:42	P	NO REACTION TO STIMULUS
			09-16-01	10:50	P	NO REACTION TO STIMULUS
			09-17-01	11:28	P	NO REACTION TO STIMULUS
			09-18-01	11:30	P	NO REACTION TO STIMULUS
			09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-21-01	11:22	P	NO REACTION TO STIMULUS
			09-22-01	11:05	P	NO REACTION TO STIMULUS
			09-23-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-24-01	11:22	P	NO REACTION TO STIMULUS
			09-25-01	12:41	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74700	M	0 PPM	BEHAVIOR/CNS	09-26-01	11:18	P	NO REACTION TO STIMULUS
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	NO REACTION TO STIMULUS
				09-29-01	10:42	P	NO REACTION TO STIMULUS
				09-30-01	10:44	P	NO REACTION TO STIMULUS
				10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:39	P	NO REACTION TO STIMULUS
				10-07-01	10:32	P	NO REACTION TO STIMULUS
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	NO REACTION TO STIMULUS
				10-10-01	11:45	P	NO REACTION TO STIMULUS
				10-11-01	11:30	P	NO REACTION TO STIMULUS
				10-12-01	11:19	P	NO REACTION TO STIMULUS
				10-13-01	10:35	P	NO REACTION TO STIMULUS
				10-14-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	10:55	P	NO REACTION TO STIMULUS
				10-16-01	11:43	P	NO REACTION TO STIMULUS
				10-17-01	10:58	P	NO REACTION TO STIMULUS
				10-18-01	11:00	P	NO REACTION TO STIMULUS
				10-19-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74700	M	0 PPM	BEHAVIOR/CNS	10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:24	P	NO REACTION TO STIMULUS
				10-22-01	11:20	P	NO REACTION TO STIMULUS
				10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:05	P	NO REACTION TO STIMULUS
				10-25-01	11:00	P	NO REACTION TO STIMULUS
				10-26-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:49	P	NO REACTION TO STIMULUS
				10-28-01	10:56	P	NO REACTION TO STIMULUS
				10-29-01	11:05	P	NO REACTION TO STIMULUS
				10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-01-01	10:25	P	NO REACTION TO STIMULUS
				11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	NO REACTION TO STIMULUS
				11-04-01	10:40	P	NO REACTION TO STIMULUS
				11-05-01	11:00	P	NO REACTION TO STIMULUS
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74700	M	0 PPM	BEHAVIOR/CNS	11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	NO REACTION TO STIMULUS
				11-13-01	10:55	P	NO REACTION TO STIMULUS
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	NO REACTION TO STIMULUS
				11-17-01	11:15	P	NO REACTION TO STIMULUS
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	NO REACTION TO STIMULUS
				11-20-01	10:55	P	NO REACTION TO STIMULUS
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	NO REACTION TO STIMULUS
				11-23-01	10:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:25	P	NO REACTION TO STIMULUS
				11-26-01	11:10	P	NO REACTION TO STIMULUS
				11-27-01	11:26	P	NO REACTION TO STIMULUS
				11-28-01	10:30	P	NO REACTION TO STIMULUS
				11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:02	P	NO REACTION TO STIMULUS
				12-02-01	11:08	P	NO REACTION TO STIMULUS
				12-03-01	10:50	P	NO REACTION TO STIMULUS
				12-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74700	M	0 PPM	BEHAVIOR/CNS	12-06-01	10:45	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	10:50	P	NO REACTION TO STIMULUS
				12-10-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	11:50	P	NO REACTION TO STIMULUS
				12-12-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:25	P	NO REACTION TO STIMULUS
				12-16-01	10:25	P	NO REACTION TO STIMULUS
				12-17-01	10:52	P	NO REACTION TO STIMULUS
				12-18-01	11:05	P	NO REACTION TO STIMULUS
				12-19-01	10:45	P	NO REACTION TO STIMULUS
				12-20-01	10:53	P	NO REACTION TO STIMULUS
				12-21-01	10:55	P	NO REACTION TO STIMULUS
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74700	M	0 PPM	BEHAVIOR/CNS	12-28-01	11:01	P	NO REACTION TO STIMULUS
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	NO REACTION TO STIMULUS
				01-02-02	11:03	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
74701	M	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	NO REACTION TO STIMULUS
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:05	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	NO REACTION TO STIMULUS
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:15	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	BEHAVIOR/CNS	09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	NO REACTION TO STIMULUS
				09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:05	P	NO REACTION TO STIMULUS
				09-23-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:22	P	NO REACTION TO STIMULUS
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:15	P	NO REACTION TO STIMULUS
				09-29-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:44	P	NO REACTION TO STIMULUS
				10-01-01	11:11	P	NO REACTION TO STIMULUS
				10-02-01	11:37	P	NO REACTION TO STIMULUS
				10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	10-05-01	11:04	P	STIMULUS WAS HEARD
			10-06-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-07-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-08-01	14:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-09-01	13:00	P	NO REACTION TO STIMULUS
			10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-11-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-12-01	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:35	P	NO REACTION TO STIMULUS
			10-15-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	10-21-01	10:24	P	STIMULUS WAS HEARD
			10-22-01	11:20	P	NO REACTION TO STIMULUS
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-25-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-26-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-27-01	10:49	P	NO REACTION TO STIMULUS
			10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-01-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-02-01	10:22	P	NO REACTION TO STIMULUS
			11-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	BEHAVIOR/CNS	11-06-01	11:00	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	NO REACTION TO STIMULUS
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	NO REACTION TO STIMULUS
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	11-24-01	10:28	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-27-01	11:26	P	NO REACTION TO STIMULUS
			11-28-01	10:30	P	NO REACTION TO STIMULUS
			11-29-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-01-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-02-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-04-01	10:55	P	NO REACTION TO STIMULUS
			12-05-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-06-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-07-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-08-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-09-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701	M	0 PPM	12-10-01	10:50	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-11-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-13-01	11:00	P	NO REACTION TO STIMULUS
			12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-15-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-16-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-17-01	10:52	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-18-01	11:05	P	NO REACTION TO STIMULUS
			12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-20-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-21-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-23-01	10:15	P	NO REACTION TO STIMULUS
			12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-25-01	11:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74701 M	0 PPM	BEHAVIOR/CNS	12-26-01	10:50	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
			12-27-01	11:05	P	NO REACTION TO STIMULUS
			12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-30-01	10:30	P	NO REACTION TO STIMULUS
			12-31-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-01-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-02-02	11:03	P	NO REACTION TO STIMULUS
			01-03-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-04-02	11:30	P	NO REACTION TO STIMULUS
			01-05-02	12:05	P	NO REACTION TO STIMULUS
			01-06-02	11:40	P	NO REACTION TO STIMULUS
			01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-08-02	11:55	P	NO REACTION TO STIMULUS
			01-09-02	11:25	P	NO REACTION TO STIMULUS
74605 M	500 PPM	BEHAVIOR/CNS	01-10-02	11:35	P	NO REACTION TO STIMULUS
			09-04-01	11:37	P	NO REACTION TO STIMULUS
			09-05-01	11:23	P	NO REACTION TO STIMULUS
			09-06-01	11:37	P	NO REACTION TO STIMULUS
			09-07-01	11:28	P	NO REACTION TO STIMULUS
			09-08-01	11:11	P	NO REACTION TO STIMULUS
			09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74605	M	500 PPM	BEHAVIOR/CNS	09-10-01	11:27	P	STIMULUS WAS HEARD
				09-11-01	11:37	P	NO REACTION TO STIMULUS
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	NO REACTION TO STIMULUS
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	NO REACTION TO STIMULUS
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74605	M	500 PPM	BEHAVIOR/CNS	10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:35	P	NO REACTION TO STIMULUS
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:40	P	NO REACTION TO STIMULUS
				10-14-01	10:40	P	NO REACTION TO STIMULUS
				10-15-01	11:00	P	NO REACTION TO STIMULUS
				10-16-01	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	NO REACTION TO STIMULUS
				10-24-01	11:10	P	NO REACTION TO STIMULUS
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74605	M	500 PPM	BEHAVIOR/CNS	10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	NO REACTION TO STIMULUS
				10-29-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:05	P	NO REACTION TO STIMULUS
				10-31-01	11:45	P	NO REACTION TO STIMULUS
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	NO REACTION TO STIMULUS
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	NO REACTION TO STIMULUS
				11-08-01	11:22	P	NO REACTION TO STIMULUS
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	NO REACTION TO STIMULUS
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-13-01	11:00	P	NO REACTION TO STIMULUS
				11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	NO REACTION TO STIMULUS
				11-16-01	11:20	P	NO REACTION TO STIMULUS
				11-17-01	11:20	P	NO REACTION TO STIMULUS
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74605	M	500 PPM	BEHAVIOR/CNS	11-20-01	11:00	P	NO REACTION TO STIMULUS
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	NO REACTION TO STIMULUS
				11-23-01	10:07	P	NO REACTION TO STIMULUS
				11-24-01	10:33	P	NO REACTION TO STIMULUS
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	NO REACTION TO STIMULUS
				11-28-01	10:35	P	NO REACTION TO STIMULUS
				11-29-01	10:50	P	NO REACTION TO STIMULUS
				11-30-01	10:45	P	NO REACTION TO STIMULUS
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:05	P	NO REACTION TO STIMULUS
				12-06-01	10:50	P	NO REACTION TO STIMULUS
				12-07-01	10:35	P	NO REACTION TO STIMULUS
				12-08-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	10:55	P	NO REACTION TO STIMULUS
				12-10-01	10:55	P	NO REACTION TO STIMULUS
				12-11-01	11:55	P	NO REACTION TO STIMULUS
				12-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:05	P	NO REACTION TO STIMULUS
				12-14-01	10:55	P	NO REACTION TO STIMULUS
				12-15-01	10:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74605	M	500 PPM	BEHAVIOR/CNS	12-16-01	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P NO REACTION TO STIMULUS
				12-18-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:50	P NO REACTION TO STIMULUS
				12-20-01	10:58	P NO REACTION TO STIMULUS
				12-21-01	11:00	P NO REACTION TO STIMULUS
				12-22-01	10:50	P NO REACTION TO STIMULUS
				12-23-01	10:20	P NO REACTION TO STIMULUS
				12-24-01	10:46	P NO REACTION TO STIMULUS
				12-25-01	11:54	P NO REACTION TO STIMULUS
				12-26-01	10:55	P NO REACTION TO STIMULUS
				12-27-01	11:10	P NO REACTION TO STIMULUS
				12-28-01	11:06	P NO REACTION TO STIMULUS
				12-29-01	10:41	P NO REACTION TO STIMULUS
				12-30-01	10:35	P NO REACTION TO STIMULUS
				12-31-01	10:47	P NO REACTION TO STIMULUS
				01-01-02	11:45	P NO REACTION TO STIMULUS
				01-02-02	11:08	P NO REACTION TO STIMULUS
				01-03-02	11:15	P NO REACTION TO STIMULUS
				01-04-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P NO REACTION TO STIMULUS
				01-06-02	11:45	P NO REACTION TO STIMULUS
				01-07-02	11:25	P NO REACTION TO STIMULUS
				01-08-02	12:00	P NO REACTION TO STIMULUS
				01-09-02	11:30	P NO REACTION TO STIMULUS
				01-10-02	11:40	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74605	M	500 PPM	BEHAVIOR/CNS	01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74612	M	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74612	M	500 PPM	BEHAVIOR/CNS	09-17-01	11:33	P	STIMULUS WAS HEARD
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74612	M	500 PPM	BEHAVIOR/CNS	10-05-01	11:09	P	STIMULUS WAS HEARD
				10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:24	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74612	M	500 PPM	BEHAVIOR/CNS	10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	NO REACTION TO STIMULUS
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-06-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74612 M	500 PPM	BEHAVIOR/CNS	11-07-01	11:00	P	STIMULUS WAS HEARD
			11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-10-01	10:05	P	NO REACTION TO STIMULUS
			11-11-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-13-01	11:00	P	NO REACTION TO STIMULUS
			11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-15-01	10:54	P	NO REACTION TO STIMULUS
			11-16-01	11:20	P	NO REACTION TO STIMULUS
			11-17-01	11:20	P	NO REACTION TO STIMULUS
			11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-20-01	11:00	P	NO REACTION TO STIMULUS
			11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-22-01	10:08	P	NO REACTION TO STIMULUS
			11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-24-01	10:33	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74612	M	500 PPM	BEHAVIOR/CNS	11-25-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-27-01	11:31	P	NO REACTION TO STIMULUS
				11-28-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-29-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-03-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-06-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74612	M	500 PPM	BEHAVIOR/CNS	12-11-01	11:55	P VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:30	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:30	P NO REACTION TO STIMULUS
				12-17-01	10:57	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:10	P NO REACTION TO STIMULUS
				12-19-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74612	M	500 PPM	BEHAVIOR/CNS	12-27-01	11:10	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:47	P NO REACTION TO STIMULUS
				01-01-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P NO REACTION TO STIMULUS
				01-05-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74690	M	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74690	M	500 PPM	BEHAVIOR/CNS	09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:37	P	NO REACTION TO STIMULUS
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74690	M	500 PPM	BEHAVIOR/CNS	09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	NO REACTION TO STIMULUS
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74690	M	500 PPM	BEHAVIOR/CNS	10-12-01	11:24	P	STIMULUS WAS HEARD
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74690	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			10-29-01	11:10	P	NO REACTION TO STIMULUS
			10-30-01	11:05	P	NO REACTION TO STIMULUS
			10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-01-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-02-01	10:27	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-06-01	11:05	P	NO REACTION TO STIMULUS
			11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-09-01	10:36	P	NO REACTION TO STIMULUS
			11-10-01	10:05	P	NO REACTION TO STIMULUS
			11-11-01	11:12	P	NO REACTION TO STIMULUS
			11-12-01	10:45	P	NO REACTION TO STIMULUS
			11-13-01	11:00	P	NO REACTION TO STIMULUS
			11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-15-01	10:54	P	NO REACTION TO STIMULUS
			11-16-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74690	M	500 PPM	BEHAVIOR/CNS	11-17-01	11:20	P	STIMULUS WAS HEARD
				11-18-01	11:24	P	NO REACTION TO STIMULUS
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	NO REACTION TO STIMULUS
				11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-27-01	11:31	P	NO REACTION TO STIMULUS
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74690	M	500 PPM	BEHAVIOR/CNS	12-06-01	10:50	P	STIMULUS WAS HEARD
				12-07-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-11-01	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:50	P	NO REACTION TO STIMULUS
				12-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	NO REACTION TO STIMULUS
				12-16-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-17-01	10:57	P	NO REACTION TO STIMULUS
				12-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74690	M	500 PPM	BEHAVIOR/CNS	12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	NO REACTION TO STIMULUS
				12-24-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-27-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-29-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74690	M	500 PPM	BEHAVIOR/CNS	01-09-02	11:30	P	NO REACTION TO STIMULUS
74729	M	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	NO REACTION TO STIMULUS
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	NO REACTION TO STIMULUS
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74729	M	500 PPM	BEHAVIOR/CNS	09-25-01	12:46	P	STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	NO REACTION TO STIMULUS
				10-01-01	11:16	P	NO REACTION TO STIMULUS
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:35	P	NO REACTION TO STIMULUS
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74729	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			10-15-01	11:00	P	NO REACTION TO STIMULUS
			10-16-01	11:48	P	NO REACTION TO STIMULUS
			10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:05	P	NO REACTION TO STIMULUS
			10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-21-01	10:29	P	NO REACTION TO STIMULUS
			10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:10	P	NO REACTION TO STIMULUS
			10-25-01	11:05	P	NO REACTION TO STIMULUS
			10-26-01	10:50	P	NO REACTION TO STIMULUS
			10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-30-01	11:05	P	NO REACTION TO STIMULUS
			10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74729	M	500 PPM	BEHAVIOR/CNS	11-03-01	10:55	P	STIMULUS WAS HEARD
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:00	P	NO REACTION TO STIMULUS
				11-08-01	11:22	P	NO REACTION TO STIMULUS
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	NO REACTION TO STIMULUS
				11-16-01	11:20	P	NO REACTION TO STIMULUS
				11-17-01	11:20	P	NO REACTION TO STIMULUS
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74729	M	500 PPM	BEHAVIOR/CNS	11-23-01	10:07	P	NO REACTION TO STIMULUS
				11-24-01	10:33	P	NO REACTION TO STIMULUS
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	NO REACTION TO STIMULUS
				11-28-01	10:35	P	NO REACTION TO STIMULUS
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-08-01	10:47	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-09-01	10:55	P	NO REACTION TO STIMULUS
				12-10-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74729	M	500 PPM	BEHAVIOR/CNS	12-13-01	11:05	P VOCALIZATION)
				12-14-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P NO REACTION TO STIMULUS
				12-16-01	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P NO REACTION TO STIMULUS
				12-24-01	10:46	P NO REACTION TO STIMULUS
				12-25-01	11:54	P NO REACTION TO STIMULUS
				12-26-01	10:55	P NO REACTION TO STIMULUS
				12-27-01	11:10	P NO REACTION TO STIMULUS
				12-28-01	11:06	P NO REACTION TO STIMULUS
				12-29-01	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74729	M	500 PPM	BEHAVIOR/CNS	12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
74733	M	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	NO REACTION TO STIMULUS
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	09-13-01	11:20	P	STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74733	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			10-01-01	11:16	P	NO REACTION TO STIMULUS
			10-02-01	11:42	P	NO REACTION TO STIMULUS
			10-03-01	11:16	P	NO REACTION TO STIMULUS
			10-04-01	11:10	P	NO REACTION TO STIMULUS
			10-05-01	11:09	P	NO REACTION TO STIMULUS
			10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-09-01	13:05	P	NO REACTION TO STIMULUS
			10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-13-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-16-01	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-17-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	10-19-01	11:10	P	STIMULUS WAS HEARD
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	NO REACTION TO STIMULUS
				11-02-01	10:27	P	NO REACTION TO STIMULUS
				11-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	11-05-01	11:05	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-13-01	11:00	P	NO REACTION TO STIMULUS
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P	NO REACTION TO STIMULUS
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:00	P	NO REACTION TO STIMULUS
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	11-22-01	10:08	P	STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	NO REACTION TO STIMULUS
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-08-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	12-09-01	10:55	P	STIMULUS WAS HEARD
				12-10-01	10:55	P	NO REACTION TO STIMULUS
				12-11-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74733	M	500 PPM	BEHAVIOR/CNS	12-24-01	10:46	P	STIMULUS WAS HEARD
				12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74733	M	500 PPM	BEHAVIOR/CNS	01-11-02	11:15	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74608	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	NO REACTION TO STIMULUS
				09-08-01	11:16	P	NO REACTION TO STIMULUS
				09-09-01	10:28	P	NO REACTION TO STIMULUS
				09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:52	P	NO REACTION TO STIMULUS
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74608	M	1000 PPM	BEHAVIOR/CNS	09-20-01	11:22	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				09-21-01	11:32	P	NO REACTION TO STIMULUS
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74608	M	1000 PPM	BEHAVIOR/CNS	10-09-01	13:10	P	STIMULUS WAS HEARD
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-12-01	11:29	P	STIMULUS WAS HEARD
				10-12-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-13-01	10:45	P	STIMULUS WAS HEARD
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-14-01	10:45	P	STIMULUS WAS HEARD
				10-14-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-15-01	11:05	P	VOCALIZATION)
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-16-01	11:53	P	STIMULUS WAS HEARD
				10-17-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-17-01	11:08	P	VOCALIZATION)
				10-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-18-01	11:10	P	STIMULUS WAS HEARD
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-19-01	11:15	P	STIMULUS WAS HEARD
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-20-01	10:42	P	STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-21-01	10:35	P	STIMULUS WAS HEARD
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-22-01	11:30	P	STIMULUS WAS HEARD
				10-23-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-23-01	11:10	P	STIMULUS WAS HEARD
				10-24-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74608	M	1000 PPM	BEHAVIOR/CNS	10-25-01	11:10	P	STIMULUS WAS HEARD
				10-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74608	M	1000 PPM	BEHAVIOR/CNS	11-10-01	10:10	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-16-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-20-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-21-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-22-01	10:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-26-01	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74608	M	1000 PPM	BEHAVIOR/CNS	11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	NO REACTION TO STIMULUS
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74608	M	1000 PPM	BEHAVIOR/CNS	12-16-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74608 M	1000 PPM	BEHAVIOR/CNS	01-03-02	11:20	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-04-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)			
			01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-08-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)			
			01-09-02	11:35	P	NO REACTION TO STIMULUS			
			01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			74617 M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
						09-05-01	11:28	P	NO REACTION TO STIMULUS
09-06-01	11:42	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-07-01	11:33	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-08-01	11:16	P				NO REACTION TO STIMULUS			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BEHAVIOR/CNS	09-09-01	10:28	P NO REACTION TO STIMULUS
				09-10-01	11:32	P NO REACTION TO STIMULUS
				09-11-01	11:42	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:25	P NO REACTION TO STIMULUS
				09-14-01	11:30	P NO REACTION TO STIMULUS
				09-15-01	10:52	P NO REACTION TO STIMULUS
				09-16-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:38	P NO REACTION TO STIMULUS
				09-18-01	11:40	P NO REACTION TO STIMULUS
				09-19-01	11:40	P NO REACTION TO STIMULUS
				09-20-01	11:22	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:32	P NO REACTION TO STIMULUS
				09-22-01	11:15	P NO REACTION TO STIMULUS
				09-23-01	10:49	P NO REACTION TO STIMULUS
				09-24-01	11:32	P NO REACTION TO STIMULUS
				09-25-01	12:51	P NO REACTION TO STIMULUS
				09-26-01	11:28	P NO REACTION TO STIMULUS
				09-27-01	11:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P NO REACTION TO STIMULUS
				09-29-01	10:56	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P NO REACTION TO STIMULUS
				10-01-01	11:21	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BEHAVIOR/CNS	10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	NO REACTION TO STIMULUS
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	NO REACTION TO STIMULUS
				10-26-01	10:55	P	NO REACTION TO STIMULUS
				10-27-01	10:59	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BEHAVIOR/CNS	10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	NO REACTION TO STIMULUS
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	NO REACTION TO STIMULUS
				11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	NO REACTION TO STIMULUS
				11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	NO REACTION TO STIMULUS
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	NO REACTION TO STIMULUS
				11-16-01	11:25	P	NO REACTION TO STIMULUS
				11-17-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BEHAVIOR/CNS	11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	NO REACTION TO STIMULUS
				11-30-01	10:50	P	NO REACTION TO STIMULUS
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-08-01	10:52	P	NO REACTION TO STIMULUS
				12-09-01	11:00	P	NO REACTION TO STIMULUS
				12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	NO REACTION TO STIMULUS
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74617	M	1000 PPM	BEHAVIOR/CNS	12-18-01	11:15	P NO REACTION TO STIMULUS
				12-19-01	10:55	P NO REACTION TO STIMULUS
				12-20-01	11:03	P NO REACTION TO STIMULUS
				12-21-01	11:05	P NO REACTION TO STIMULUS
				12-22-01	10:55	P NO REACTION TO STIMULUS
				12-23-01	10:25	P NO REACTION TO STIMULUS
				12-24-01	10:51	P NO REACTION TO STIMULUS
				12-25-01	11:59	P NO REACTION TO STIMULUS
				12-26-01	11:00	P NO REACTION TO STIMULUS
				12-27-01	11:15	P NO REACTION TO STIMULUS
				12-28-01	11:11	P NO REACTION TO STIMULUS
				12-29-01	10:46	P NO REACTION TO STIMULUS
				12-30-01	10:40	P NO REACTION TO STIMULUS
				12-31-01	10:52	P NO REACTION TO STIMULUS
				01-01-02	11:50	P NO REACTION TO STIMULUS
				01-02-02	11:13	P NO REACTION TO STIMULUS
				01-03-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:40	P NO REACTION TO STIMULUS
				01-05-02	12:15	P NO REACTION TO STIMULUS
				01-06-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P NO REACTION TO STIMULUS
				01-08-02	12:05	P NO REACTION TO STIMULUS
				01-09-02	11:35	P NO REACTION TO STIMULUS
				01-10-02	11:45	P NO REACTION TO STIMULUS
				01-11-02	11:20	P NO REACTION TO STIMULUS
				01-12-02	13:13	P NO REACTION TO STIMULUS
				01-13-02	12:21	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74618	M	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			09-04-01	11:42	P	NO REACTION TO STIMULUS
			09-05-01	11:28	P	NO REACTION TO STIMULUS
			09-06-01	11:42	P	NO REACTION TO STIMULUS
			09-07-01	11:33	P	NO REACTION TO STIMULUS
			09-08-01	11:16	P	NO REACTION TO STIMULUS
			09-09-01	10:28	P	NO REACTION TO STIMULUS
			09-10-01	11:32	P	NO REACTION TO STIMULUS
			09-11-01	11:42	P	NO REACTION TO STIMULUS
			09-12-01	11:40	P	NO REACTION TO STIMULUS
			09-13-01	11:25	P	NO REACTION TO STIMULUS
			09-14-01	11:30	P	NO REACTION TO STIMULUS
			09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-16-01	11:00	P	NO REACTION TO STIMULUS
			09-17-01	11:38	P	NO REACTION TO STIMULUS
			09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-19-01	11:40	P	NO REACTION TO STIMULUS
			09-20-01	11:22	P	NO REACTION TO STIMULUS
			09-21-01	11:32	P	NO REACTION TO STIMULUS
			09-22-01	11:15	P	NO REACTION TO STIMULUS
			09-23-01	10:49	P	NO REACTION TO STIMULUS
			09-24-01	11:32	P	NO REACTION TO STIMULUS
			09-25-01	12:51	P	NO REACTION TO STIMULUS
			09-26-01	11:28	P	NO REACTION TO STIMULUS
			09-27-01	11:37	P	NO REACTION TO STIMULUS
			09-28-01	11:25	P	NO REACTION TO STIMULUS
			09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74618	M	1000 PPM	BEHAVIOR/CNS	09-30-01	10:55	P	STIMULUS WAS HEARD
				10-01-01	11:21	P	NO REACTION TO STIMULUS
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	NO REACTION TO STIMULUS
				10-15-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	NO REACTION TO STIMULUS
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74618	M	1000 PPM	BEHAVIOR/CNS	10-24-01	11:15	P NO REACTION TO STIMULUS
				10-25-01	11:10	P NO REACTION TO STIMULUS
				10-26-01	10:55	P NO REACTION TO STIMULUS
				10-27-01	10:59	P NO REACTION TO STIMULUS
				10-28-01	11:06	P NO REACTION TO STIMULUS
				10-29-01	11:15	P NO REACTION TO STIMULUS
				10-30-01	11:10	P NO REACTION TO STIMULUS
				10-31-01	11:50	P NO REACTION TO STIMULUS
				11-01-01	10:35	P NO REACTION TO STIMULUS
				11-02-01	10:32	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P NO REACTION TO STIMULUS
				11-04-01	10:50	P NO REACTION TO STIMULUS
				11-05-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-06-01	11:10	P NO REACTION TO STIMULUS
				11-07-01	11:05	P NO REACTION TO STIMULUS
				11-08-01	11:28	P NO REACTION TO STIMULUS
				11-09-01	10:41	P NO REACTION TO STIMULUS
				11-10-01	10:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:17	P NO REACTION TO STIMULUS
				11-12-01	10:50	P NO REACTION TO STIMULUS
				11-13-01	11:05	P NO REACTION TO STIMULUS
				11-14-01	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P NO REACTION TO STIMULUS
				11-16-01	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74618	M	1000 PPM	BEHAVIOR/CNS	11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	NO REACTION TO STIMULUS
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-08-01	10:52	P	NO REACTION TO STIMULUS
				12-09-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74618	M	1000 PPM	BEHAVIOR/CNS	12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	NO REACTION TO STIMULUS
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	NO REACTION TO STIMULUS
				12-21-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74618	M	1000 PPM	BEHAVIOR/CNS	01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
74670	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:16	P	NO REACTION TO STIMULUS
				09-09-01	10:28	P	NO REACTION TO STIMULUS
				09-10-01	11:32	P	NO REACTION TO STIMULUS
				09-11-01	11:42	P	NO REACTION TO STIMULUS
				09-12-01	11:40	P	NO REACTION TO STIMULUS
				09-13-01	11:25	P	NO REACTION TO STIMULUS
				09-14-01	11:30	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	NO REACTION TO STIMULUS
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	NO REACTION TO STIMULUS
				09-19-01	11:40	P	NO REACTION TO STIMULUS
				09-20-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74670	M	1000 PPM	BEHAVIOR/CNS	09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	NO REACTION TO STIMULUS
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74670	M	1000 PPM	BEHAVIOR/CNS	10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	NO REACTION TO STIMULUS
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:55	P	NO REACTION TO STIMULUS
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P	NO REACTION TO STIMULUS
				11-05-01	11:10	P	NO REACTION TO STIMULUS
				11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	NO REACTION TO STIMULUS
				11-08-01	11:28	P	NO REACTION TO STIMULUS
				11-09-01	10:41	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74670	M	1000 PPM	BEHAVIOR/CNS	11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	NO REACTION TO STIMULUS
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	NO REACTION TO STIMULUS
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	NO REACTION TO STIMULUS
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	NO REACTION TO STIMULUS
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74670	M	1000 PPM	BEHAVIOR/CNS	12-04-01	11:05	P NO REACTION TO STIMULUS
				12-05-01	11:10	P NO REACTION TO STIMULUS
				12-06-01	10:55	P NO REACTION TO STIMULUS
				12-07-01	10:40	P NO REACTION TO STIMULUS
				12-08-01	10:52	P NO REACTION TO STIMULUS
				12-09-01	11:00	P NO REACTION TO STIMULUS
				12-10-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P NO REACTION TO STIMULUS
				12-12-01	10:55	P NO REACTION TO STIMULUS
				12-13-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:00	P NO REACTION TO STIMULUS
				12-15-01	10:35	P NO REACTION TO STIMULUS
				12-16-01	10:35	P NO REACTION TO STIMULUS
				12-17-01	11:02	P NO REACTION TO STIMULUS
				12-18-01	11:15	P NO REACTION TO STIMULUS
				12-19-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:03	P NO REACTION TO STIMULUS
				12-21-01	11:05	P NO REACTION TO STIMULUS
				12-22-01	10:55	P NO REACTION TO STIMULUS
				12-23-01	10:25	P NO REACTION TO STIMULUS
				12-24-01	10:51	P NO REACTION TO STIMULUS
				12-25-01	11:59	P NO REACTION TO STIMULUS
				12-26-01	11:00	P NO REACTION TO STIMULUS
				12-27-01	11:15	P NO REACTION TO STIMULUS
				12-28-01	11:11	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:46	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74670	M	1000 PPM	BEHAVIOR/CNS	12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
74674	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74674	M	1000 PPM	BEHAVIOR/CNS	09-13-01	11:25	P	STIMULUS WAS HEARD
				09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74674	M	1000 PPM	BEHAVIOR/CNS	09-29-01	10:56	P	STIMULUS WAS HEARD
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74674	M	1000 PPM	BEHAVIOR/CNS	10-16-01	11:53	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-23-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-01-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74674	M	1000 PPM	BEHAVIOR/CNS	11-02-01	10:32	P	STIMULUS WAS HEARD
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	NO REACTION TO STIMULUS
				11-08-01	11:28	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:29	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74674	M	1000 PPM	BEHAVIOR/CNS	11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:36	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74674	M	1000 PPM	BEHAVIOR/CNS	12-05-01	11:10	P VOCALIZATION)
				12-06-01	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-08-01	10:52	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-10-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:35	P NO REACTION TO STIMULUS
				12-16-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74674	M	1000 PPM	BEHAVIOR/CNS	12-20-01	11:03	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-01-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS				
74674	M	1000 PPM	BEHAVIOR/CNS	01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-06-02	11:50	P	NO REACTION TO STIMULUS				
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-10-02	11:45	P	NO REACTION TO STIMULUS				
				01-11-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)				
				01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-13-02	12:21	P	NO REACTION TO STIMULUS				
				74679	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
								09-05-01	11:28	P	NO REACTION TO STIMULUS
								09-06-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
								09-07-01	11:33	P	NO REACTION TO STIMULUS
09-08-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-09-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-11-01	11:42	P	NO REACTION TO STIMULUS								
09-12-01	11:40	P	NO REACTION TO STIMULUS								
09-13-01	11:25	P	NO REACTION TO STIMULUS								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74679	M	1000 PPM	BEHAVIOR/CNS	09-14-01	11:30	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	NO REACTION TO STIMULUS
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P	NO REACTION TO STIMULUS
				09-23-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74679	M	1000 PPM	BEHAVIOR/CNS	10-05-01	11:14	P	STIMULUS WAS HEARD
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74679	M	1000 PPM	BEHAVIOR/CNS	10-24-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	NO REACTION TO STIMULUS
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74679	M	1000 PPM	BEHAVIOR/CNS	11-12-01	10:50	P	NO REACTION TO STIMULUS
				11-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	NO REACTION TO STIMULUS
				11-19-01	10:53	P	NO REACTION TO STIMULUS
				11-20-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	NO REACTION TO STIMULUS
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74679	M	1000 PPM	BEHAVIOR/CNS	12-01-01	11:12	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-06-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-08-01	10:52	P	NO REACTION TO STIMULUS
				12-09-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-10-01	11:00	P	NO REACTION TO STIMULUS
				12-11-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74679	M	1000 PPM	BEHAVIOR/CNS	12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:46	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
74683	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:16	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74683	M	1000 PPM	BEHAVIOR/CNS	09-09-01	10:28	P NO REACTION TO STIMULUS
				09-10-01	11:32	P NO REACTION TO STIMULUS
				09-11-01	11:42	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:52	P NO REACTION TO STIMULUS
				09-16-01	11:00	P NO REACTION TO STIMULUS
				09-17-01	11:38	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:22	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:32	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P NO REACTION TO STIMULUS
				09-24-01	11:32	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:51	P NO REACTION TO STIMULUS
				09-26-01	11:28	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74683	M	1000 PPM	BEHAVIOR/CNS	09-27-01	11:37	P	STIMULUS WAS HEARD
				09-28-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				09-29-01	10:56	P	STIMULUS WAS HEARD
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-02-01	11:47	P	STIMULUS WAS HEARD
				10-03-01	11:21	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-04-01	11:15	P	VOCALIZATION)
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-06-01	10:49	P	STIMULUS WAS HEARD
				10-07-01	10:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-08-01	14:26	P	VOCALIZATION)
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-10-01	11:55	P	STIMULUS WAS HEARD
				10-11-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-12-01	11:29	P	VOCALIZATION)
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
							MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74683	M	1000 PPM	BEHAVIOR/CNS	10-14-01	10:45	P VOCALIZATION)
				10-15-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:53	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:08	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-18-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:15	P NO REACTION TO STIMULUS
				10-20-01	10:42	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-21-01	10:35	P NO REACTION TO STIMULUS
				10-22-01	11:30	P NO REACTION TO STIMULUS
				10-23-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-25-01	11:10	P NO REACTION TO STIMULUS
				10-26-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P NO REACTION TO STIMULUS
				10-28-01	11:06	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74683	M	1000 PPM	BEHAVIOR/CNS	10-31-01	11:50	P	STIMULUS WAS HEARD
				11-01-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	NO REACTION TO STIMULUS
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74683	M	1000 PPM	BEHAVIOR/CNS	11-16-01	11:25	P	STIMULUS WAS HEARD
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-03-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74683	M	1000 PPM	BEHAVIOR/CNS	12-05-01	11:10	P	VOCALIZATION) NO REACTION TO STIMULUS
				12-06-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:03	P	NO REACTION TO STIMULUS
				12-21-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74683	M	1000 PPM	BEHAVIOR/CNS	12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74693	M	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74693 M	1000 PPM	BEHAVIOR/CNS	09-05-01	11:28	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
			09-06-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-07-01	11:33	P	NO REACTION TO STIMULUS
			09-08-01	11:16	P	NO REACTION TO STIMULUS
			09-09-01	10:28	P	NO REACTION TO STIMULUS
			09-10-01	11:32	P	NO REACTION TO STIMULUS
			09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:40	P	NO REACTION TO STIMULUS
			09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-15-01	10:52	P	NO REACTION TO STIMULUS
			09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-17-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-20-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74693	M	1000 PPM	BEHAVIOR/CNS	09-23-01	10:49	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	NO REACTION TO STIMULUS
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	NO REACTION TO STIMULUS
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74693	M	1000 PPM	BEHAVIOR/CNS	10-13-01	10:45	P	STIMULUS WAS HEARD
				10-14-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:10	P	NO REACTION TO STIMULUS
				10-26-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74693 M	1000 PPM	BEHAVIOR/CNS	10-31-01	11:50	P	STIMULUS WAS HEARD
			11-01-01	10:35	P	NO REACTION TO STIMULUS
			11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-03-01	11:00	P	NO REACTION TO STIMULUS
			11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-04-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-07-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-10-01	10:10	P	NO REACTION TO STIMULUS
			11-11-01	11:17	P	NO REACTION TO STIMULUS
			11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-13-01	11:05	P	NO REACTION TO STIMULUS
			11-14-01	11:30	P	NO REACTION TO STIMULUS
			11-15-01	10:59	P	NO REACTION TO STIMULUS
			11-16-01	11:25	P	NO REACTION TO STIMULUS
11-17-01	11:25	P	NO REACTION TO STIMULUS			
11-18-01	11:29	P	NO REACTION TO STIMULUS			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74693	M	1000 PPM	BEHAVIOR/CNS	11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS
				11-26-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	NO REACTION TO STIMULUS
				11-30-01	10:50	P	NO REACTION TO STIMULUS
				12-01-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-08-01	10:52	P	NO REACTION TO STIMULUS
				12-09-01	11:00	P	NO REACTION TO STIMULUS
				12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74693	M	1000 PPM	BEHAVIOR/CNS	12-11-01	12:00	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74693 M	1000 PPM	BEHAVIOR/CNS	01-01-02	11:50	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS			
			01-02-02	11:13	P	NO REACTION TO STIMULUS			
			01-03-02	11:20	P	NO REACTION TO STIMULUS			
			01-04-02	11:40	P	NO REACTION TO STIMULUS			
			01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-06-02	11:50	P	NO REACTION TO STIMULUS			
			01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-08-02	12:05	P	NO REACTION TO STIMULUS			
			01-09-02	11:35	P	NO REACTION TO STIMULUS			
			01-10-02	11:45	P	NO REACTION TO STIMULUS			
			01-11-02	11:20	P	NO REACTION TO STIMULUS			
			01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			74699 M	1000 PPM	BEHAVIOR/CNS	01-13-02	12:21	P	NO REACTION TO STIMULUS
						09-04-01	11:42	P	NO REACTION TO STIMULUS
09-05-01	11:28	P				NO REACTION TO STIMULUS			
09-06-01	11:42	P				NO REACTION TO STIMULUS			
09-07-01	11:33	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-08-01	11:16	P				NO REACTION TO STIMULUS			
09-09-01	10:28	P				NO REACTION TO STIMULUS			
09-10-01	11:32	P				NO REACTION TO STIMULUS			
09-11-01	11:42	P				NO REACTION TO STIMULUS			
09-12-01	11:40	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-13-01	11:25	P				NO REACTION TO STIMULUS			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74699	M	1000 PPM	BEHAVIOR/CNS	09-14-01	11:30	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	NO REACTION TO STIMULUS
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	NO REACTION TO STIMULUS
				09-19-01	11:40	P	NO REACTION TO STIMULUS
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	NO REACTION TO STIMULUS
				09-22-01	11:15	P	NO REACTION TO STIMULUS
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	NO REACTION TO STIMULUS
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	NO REACTION TO STIMULUS
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74699	M	1000 PPM	BEHAVIOR/CNS	10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:55	P	NO REACTION TO STIMULUS
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	NO REACTION TO STIMULUS
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	NO REACTION TO STIMULUS
				11-05-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74699	M	1000 PPM	BEHAVIOR/CNS	11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	NO REACTION TO STIMULUS
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	NO REACTION TO STIMULUS
				11-16-01	11:25	P	NO REACTION TO STIMULUS
				11-17-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:29	P	NO REACTION TO STIMULUS
				11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74699	M	1000 PPM	BEHAVIOR/CNS	11-30-01	10:50	P	STIMULUS WAS HEARD
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-06-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:00	P	NO REACTION TO STIMULUS
				12-10-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:00	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	NO REACTION TO STIMULUS
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74699	M	1000 PPM	BEHAVIOR/CNS	12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74624	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	VOCALIZATION) NO REACTION TO STIMULUS
				09-05-01	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	NO REACTION TO STIMULUS
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:43	P	NO REACTION TO STIMULUS
				09-18-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:45	P	NO REACTION TO STIMULUS
				09-20-01	11:27	P	NO REACTION TO STIMULUS
				09-21-01	11:37	P	NO REACTION TO STIMULUS
				09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74624	M	2500 PPM	BEHAVIOR/CNS	09-26-01	11:33	P NO REACTION TO STIMULUS
				09-27-01	11:42	P NO REACTION TO STIMULUS
				09-28-01	11:30	P NO REACTION TO STIMULUS
				09-29-01	11:01	P NO REACTION TO STIMULUS
				09-30-01	11:00	P NO REACTION TO STIMULUS
				10-01-01	11:26	P NO REACTION TO STIMULUS
				10-02-01	11:52	P NO REACTION TO STIMULUS
				10-03-01	11:26	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P NO REACTION TO STIMULUS
				10-05-01	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:54	P NO REACTION TO STIMULUS
				10-07-01	10:47	P NO REACTION TO STIMULUS
				10-08-01	14:31	P NO REACTION TO STIMULUS
				10-09-01	13:15	P NO REACTION TO STIMULUS
				10-10-01	12:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:45	P NO REACTION TO STIMULUS
				10-12-01	11:34	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P NO REACTION TO STIMULUS
				10-14-01	10:50	P NO REACTION TO STIMULUS
				10-15-01	11:10	P NO REACTION TO STIMULUS
				10-16-01	11:58	P NO REACTION TO STIMULUS
				10-17-01	11:13	P NO REACTION TO STIMULUS
				10-18-01	11:15	P NO REACTION TO STIMULUS
				10-19-01	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:47	P NO REACTION TO STIMULUS

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74624	M	2500 PPM	BEHAVIOR/CNS	10-21-01	10:41	P	NO REACTION TO STIMULUS
				10-22-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	NO REACTION TO STIMULUS
				10-30-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	11:05	P	NO REACTION TO STIMULUS
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	NO REACTION TO STIMULUS
				11-11-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74624	M	2500 PPM	BEHAVIOR/CNS	11-12-01	10:55	P	STIMULUS WAS HEARD
				11-13-01	11:10	P	NO REACTION TO STIMULUS
				11-14-01	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-15-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	NO REACTION TO STIMULUS
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:18	P	NO REACTION TO STIMULUS
				11-23-01	10:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	NO REACTION TO STIMULUS
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74624	M	2500 PPM	BEHAVIOR/CNS	12-02-01	11:23	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-03-01	11:05	P	NO REACTION TO STIMULUS
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:45	P	NO REACTION TO STIMULUS
				12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-10-01	11:05	P	NO REACTION TO STIMULUS
				12-11-01	12:05	P	NO REACTION TO STIMULUS
				12-12-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	NO REACTION TO STIMULUS
				12-15-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74624	M	2500 PPM	BEHAVIOR/CNS	12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
74628	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	NO REACTION TO STIMULUS
				09-06-01	11:47	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74628	M	2500 PPM	BEHAVIOR/CNS	09-07-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	NO REACTION TO STIMULUS
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	11:05	P	NO REACTION TO STIMULUS
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:54	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74628	M	2500 PPM	BEHAVIOR/CNS	09-24-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P	NO REACTION TO STIMULUS
				10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74628	M	2500 PPM	10-12-01	11:34	P	STIMULUS WAS HEARD
			10-13-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:50	P	NO REACTION TO STIMULUS
			10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-16-01	11:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-17-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-19-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-20-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-22-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-25-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74628	M	2500 PPM	10-27-01	11:04	P	STIMULUS WAS HEARD
			10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-31-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-01-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-02-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-06-01	11:15	P	NO REACTION TO STIMULUS
			11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-09-01	10:46	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74628	M	2500 PPM	BEHAVIOR/CNS	11-11-01	11:22	P	STIMULUS WAS HEARD
				11-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:10	P	NO REACTION TO STIMULUS
				11-14-01	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-15-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74628	M	2500 PPM	BEHAVIOR/CNS	11-27-01	11:41	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:05	P	NO REACTION TO STIMULUS
				12-11-01	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74628	M	2500 PPM	BEHAVIOR/CNS	12-14-01	11:05	P	STIMULUS WAS HEARD
				12-15-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74628	M	2500 PPM	BEHAVIOR/CNS	12-31-01	10:57	P	STIMULUS WAS HEARD
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74646	M	2500 PPM	BEHAVIOR/CNS	01-13-02	12:26	P	NO REACTION TO STIMULUS
				09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74646	M	2500 PPM	BEHAVIOR/CNS	09-08-01	11:21	P	STIMULUS WAS HEARD
				09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:43	P	NO REACTION TO STIMULUS
				09-18-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74646	M	2500 PPM	BEHAVIOR/CNS	09-24-01	11:37	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:52	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-03-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74646	M	2500 PPM	BEHAVIOR/CNS	10-11-01	11:45	P	STIMULUS WAS HEARD
				10-12-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	BEHAVIOR/CNS	10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	NO REACTION TO STIMULUS
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	BEHAVIOR/CNS	11-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	BEHAVIOR/CNS	11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	11:00	P	NO REACTION TO STIMULUS
				12-13-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	BEHAVIOR/CNS	12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-28-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74646	M	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P NO REACTION TO STIMULUS
				01-05-02	12:20	P NO REACTION TO STIMULUS
				01-06-02	11:55	P NO REACTION TO STIMULUS
				01-07-02	11:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:10	P NO REACTION TO STIMULUS
				01-09-02	11:40	P NO REACTION TO STIMULUS
				01-10-02	11:50	P NO REACTION TO STIMULUS
74647	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P NO REACTION TO STIMULUS
				09-05-01	11:33	P NO REACTION TO STIMULUS
				09-06-01	11:47	P NO REACTION TO STIMULUS
				09-07-01	11:38	P NO REACTION TO STIMULUS
				09-08-01	11:21	P NO REACTION TO STIMULUS
				09-09-01	10:33	P NO REACTION TO STIMULUS
				09-10-01	11:37	P NO REACTION TO STIMULUS
				09-11-01	11:47	P NO REACTION TO STIMULUS
				09-12-01	11:45	P NO REACTION TO STIMULUS
				09-13-01	11:30	P NO REACTION TO STIMULUS
				09-14-01	11:35	P NO REACTION TO STIMULUS
				09-15-01	10:57	P NO REACTION TO STIMULUS
				09-16-01	11:05	P NO REACTION TO STIMULUS
				09-17-01	11:43	P NO REACTION TO STIMULUS
				09-18-01	11:45	P NO REACTION TO STIMULUS
				09-19-01	11:45	P NO REACTION TO STIMULUS
				09-20-01	11:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:37	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74647	M	2500 PPM	BEHAVIOR/CNS	09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	NO REACTION TO STIMULUS
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	NO REACTION TO STIMULUS
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	NO REACTION TO STIMULUS
				10-03-01	11:26	P	NO REACTION TO STIMULUS
				10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	NO REACTION TO STIMULUS
				10-09-01	13:15	P	NO REACTION TO STIMULUS
				10-10-01	12:00	P	NO REACTION TO STIMULUS
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	NO REACTION TO STIMULUS
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	NO REACTION TO STIMULUS
				10-16-01	11:58	P	NO REACTION TO STIMULUS
				10-17-01	11:13	P	NO REACTION TO STIMULUS
				10-18-01	11:15	P	NO REACTION TO STIMULUS
				10-19-01	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74647	M	2500 PPM	BEHAVIOR/CNS	10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	NO REACTION TO STIMULUS
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	NO REACTION TO STIMULUS
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	NO REACTION TO STIMULUS
				11-09-01	10:46	P	NO REACTION TO STIMULUS
				11-10-01	10:15	P	NO REACTION TO STIMULUS
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	NO REACTION TO STIMULUS
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74647	M	2500 PPM	BEHAVIOR/CNS	11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	NO REACTION TO STIMULUS
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	NO REACTION TO STIMULUS
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	NO REACTION TO STIMULUS
				11-22-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	NO REACTION TO STIMULUS
				11-25-01	10:40	P	NO REACTION TO STIMULUS
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	NO REACTION TO STIMULUS
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	NO REACTION TO STIMULUS
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:45	P	NO REACTION TO STIMULUS
				12-08-01	10:57	P	NO REACTION TO STIMULUS
				12-09-01	11:05	P	NO REACTION TO STIMULUS
				12-10-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74647	M	2500 PPM	BEHAVIOR/CNS	12-11-01	12:05	P	NO REACTION TO STIMULUS
				12-12-01	11:00	P	NO REACTION TO STIMULUS
				12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	NO REACTION TO STIMULUS
				12-15-01	10:40	P	NO REACTION TO STIMULUS
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	NO REACTION TO STIMULUS
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS
				12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	NO REACTION TO STIMULUS
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74647	M	2500 PPM	BEHAVIOR/CNS	01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
74658	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	NO REACTION TO STIMULUS
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	NO REACTION TO STIMULUS
				09-12-01	11:45	P	NO REACTION TO STIMULUS
				09-13-01	11:30	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:43	P	NO REACTION TO STIMULUS
				09-18-01	11:45	P	NO REACTION TO STIMULUS
09-19-01	11:45	P	NO REACTION TO STIMULUS				
09-20-01	11:27	P	NO REACTION TO STIMULUS				
09-21-01	11:37	P	NO REACTION TO STIMULUS				
09-22-01	11:20	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74658	M	2500 PPM	BEHAVIOR/CNS	09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	NO REACTION TO STIMULUS
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	NO REACTION TO STIMULUS
				10-03-01	11:26	P	NO REACTION TO STIMULUS
				10-04-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	NO REACTION TO STIMULUS
				10-09-01	13:15	P	NO REACTION TO STIMULUS
				10-10-01	12:00	P	NO REACTION TO STIMULUS
				10-11-01	11:45	P	NO REACTION TO STIMULUS
				10-12-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	NO REACTION TO STIMULUS
				10-16-01	11:58	P	NO REACTION TO STIMULUS
				10-17-01	11:13	P	NO REACTION TO STIMULUS
				10-18-01	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74658	M	2500 PPM	BEHAVIOR/CNS	10-19-01	11:20	P	NO REACTION TO STIMULUS
				10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	NO REACTION TO STIMULUS
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:20	P	NO REACTION TO STIMULUS
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P	NO REACTION TO STIMULUS
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	NO REACTION TO STIMULUS
				11-09-01	10:46	P	NO REACTION TO STIMULUS
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74658	M	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			11-14-01	11:35	P	NO REACTION TO STIMULUS
			11-15-01	11:04	P	NO REACTION TO STIMULUS
			11-16-01	11:30	P	NO REACTION TO STIMULUS
			11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-18-01	11:34	P	NO REACTION TO STIMULUS
			11-19-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-20-01	11:10	P	NO REACTION TO STIMULUS
			11-21-01	11:03	P	NO REACTION TO STIMULUS
			11-22-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-23-01	10:17	P	NO REACTION TO STIMULUS
			11-24-01	10:43	P	NO REACTION TO STIMULUS
			11-25-01	10:40	P	NO REACTION TO STIMULUS
			11-26-01	11:25	P	NO REACTION TO STIMULUS
			11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-28-01	10:45	P	NO REACTION TO STIMULUS
			11-29-01	11:00	P	NO REACTION TO STIMULUS
			11-30-01	10:55	P	NO REACTION TO STIMULUS
			12-01-01	11:17	P	NO REACTION TO STIMULUS
			12-02-01	11:23	P	NO REACTION TO STIMULUS
			12-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-04-01	11:10	P	NO REACTION TO STIMULUS
			12-05-01	11:15	P	NO REACTION TO STIMULUS
			12-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74658	M	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			12-07-01	10:45	P	NO REACTION TO STIMULUS
			12-08-01	10:57	P	NO REACTION TO STIMULUS
			12-09-01	11:05	P	NO REACTION TO STIMULUS
			12-10-01	11:05	P	NO REACTION TO STIMULUS
			12-11-01	12:05	P	NO REACTION TO STIMULUS
			12-12-01	11:00	P	NO REACTION TO STIMULUS
			12-13-01	11:15	P	NO REACTION TO STIMULUS
			12-14-01	11:05	P	NO REACTION TO STIMULUS
			12-15-01	10:40	P	NO REACTION TO STIMULUS
			12-16-01	10:40	P	NO REACTION TO STIMULUS
			12-17-01	11:07	P	NO REACTION TO STIMULUS
			12-18-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-19-01	11:00	P	NO REACTION TO STIMULUS
			12-20-01	11:08	P	NO REACTION TO STIMULUS
			12-21-01	11:10	P	NO REACTION TO STIMULUS
			12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-23-01	10:30	P	NO REACTION TO STIMULUS
			12-24-01	10:56	P	NO REACTION TO STIMULUS
			12-25-01	12:04	P	NO REACTION TO STIMULUS
			12-26-01	11:05	P	NO REACTION TO STIMULUS
			12-27-01	11:20	P	NO REACTION TO STIMULUS
			12-28-01	11:16	P	NO REACTION TO STIMULUS
			12-29-01	10:51	P	NO REACTION TO STIMULUS
			12-30-01	10:45	P	NO REACTION TO STIMULUS
			12-31-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-01-02	11:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74658	M	2500 PPM	BEHAVIOR/CNS	01-02-02	11:18	P	NO REACTION TO STIMULUS				
				01-03-02	11:25	P	NO REACTION TO STIMULUS				
				01-04-02	11:45	P	NO REACTION TO STIMULUS				
				01-05-02	12:20	P	NO REACTION TO STIMULUS				
				01-06-02	11:55	P	NO REACTION TO STIMULUS				
				01-07-02	11:35	P	NO REACTION TO STIMULUS				
				01-08-02	12:10	P	NO REACTION TO STIMULUS				
				01-09-02	11:40	P	NO REACTION TO STIMULUS				
				74697	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	NO REACTION TO STIMULUS
								09-05-01	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
09-06-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-07-01	11:38	P	NO REACTION TO STIMULUS								
09-08-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-10-01	11:37	P	NO REACTION TO STIMULUS								
09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-12-01	11:45	P	NO REACTION TO STIMULUS								
09-13-01	11:30	P	NO REACTION TO STIMULUS								
09-14-01	11:35	P	NO REACTION TO STIMULUS								
09-15-01	10:57	P	NO REACTION TO STIMULUS								
09-16-01	11:05	P	NO REACTION TO STIMULUS								
09-17-01	11:43	P	NO REACTION TO STIMULUS								
09-18-01	11:45	P	NO REACTION TO STIMULUS								
09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74697 M	2500 PPM	BEHAVIOR/CNS	09-20-01	11:27	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-21-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-23-01	10:54	P	NO REACTION TO STIMULUS
			09-24-01	11:37	P	NO REACTION TO STIMULUS
			09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-26-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-27-01	11:42	P	NO REACTION TO STIMULUS
			09-28-01	11:30	P	NO REACTION TO STIMULUS
			09-29-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-30-01	11:00	P	NO REACTION TO STIMULUS
			10-01-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-02-01	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-04-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-05-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
10-06-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74697	M	2500 PPM	BEHAVIOR/CNS	10-07-01	10:47	P	STIMULUS WAS HEARD
				10-08-01	14:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	12:00	P	NO REACTION TO STIMULUS
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:13	P	NO REACTION TO STIMULUS
				10-19-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-22-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74697	M	2500 PPM	BEHAVIOR/CNS	10-23-01	11:15	P	STIMULUS WAS HEARD
				10-24-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-31-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74697	M	2500 PPM	BEHAVIOR/CNS	11-09-01	10:46	P	STIMULUS WAS HEARD
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-13-01	11:10	P	NO REACTION TO STIMULUS
				11-14-01	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:18	P	NO REACTION TO STIMULUS
				11-23-01	10:17	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74697	M	2500 PPM	BEHAVIOR/CNS	11-27-01	11:41	P	STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	11:00	P	NO REACTION TO STIMULUS
				12-07-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74697	M	2500 PPM	BEHAVIOR/CNS	12-13-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	NO REACTION TO STIMULUS
				12-19-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74697	M	2500 PPM	BEHAVIOR/CNS	12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
01-13-02	12:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-14-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
74702	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	NO REACTION TO STIMULUS
				09-05-01	11:33	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BEHAVIOR/CNS	09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	NO REACTION TO STIMULUS
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	NO REACTION TO STIMULUS
				09-17-01	11:43	P	NO REACTION TO STIMULUS
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	NO REACTION TO STIMULUS
				09-20-01	11:27	P	NO REACTION TO STIMULUS
				09-21-01	11:37	P	NO REACTION TO STIMULUS
				09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	NO REACTION TO STIMULUS
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	NO REACTION TO STIMULUS
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:26	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BEHAVIOR/CNS	10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P	NO REACTION TO STIMULUS
				10-10-01	12:00	P	NO REACTION TO STIMULUS
				10-11-01	11:45	P	NO REACTION TO STIMULUS
				10-12-01	11:34	P	NO REACTION TO STIMULUS
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:58	P	NO REACTION TO STIMULUS
				10-17-01	11:13	P	NO REACTION TO STIMULUS
				10-18-01	11:15	P	NO REACTION TO STIMULUS
				10-19-01	11:20	P	NO REACTION TO STIMULUS
				10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	NO REACTION TO STIMULUS
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BEHAVIOR/CNS	10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	NO REACTION TO STIMULUS
				11-03-01	11:05	P	NO REACTION TO STIMULUS
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	NO REACTION TO STIMULUS
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	NO REACTION TO STIMULUS
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	NO REACTION TO STIMULUS
				11-22-01	10:18	P	NO REACTION TO STIMULUS
				11-23-01	10:17	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BEHAVIOR/CNS	11-24-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	NO REACTION TO STIMULUS
				11-28-01	10:45	P	NO REACTION TO STIMULUS
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	NO REACTION TO STIMULUS
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	NO REACTION TO STIMULUS
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	NO REACTION TO STIMULUS
				12-07-01	10:45	P	NO REACTION TO STIMULUS
				12-08-01	10:57	P	NO REACTION TO STIMULUS
				12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:05	P	NO REACTION TO STIMULUS
				12-12-01	11:00	P	NO REACTION TO STIMULUS
				12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	NO REACTION TO STIMULUS
				12-15-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74702	M	2500 PPM	BEHAVIOR/CNS	12-18-01	11:20	P	NO REACTION TO STIMULUS
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS
				12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	NO REACTION TO STIMULUS
				01-03-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
74720	M	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	NO REACTION TO STIMULUS
				09-05-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74720	M	2500 PPM	BEHAVIOR/CNS	09-07-01	11:38	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	NO REACTION TO STIMULUS
				09-20-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:56	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	BEHAVIOR/CNS	09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	10-14-01	10:50	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-15-01	11:10	P	NO REACTION TO STIMULUS
			10-16-01	11:58	P	NO REACTION TO STIMULUS
			10-17-01	11:13	P	NO REACTION TO STIMULUS
			10-18-01	11:15	P	NO REACTION TO STIMULUS
			10-19-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-20-01	10:47	P	NO REACTION TO STIMULUS
			10-21-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-22-01	11:35	P	NO REACTION TO STIMULUS
			10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-25-01	11:15	P	NO REACTION TO STIMULUS
			10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-27-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-31-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74720	M	2500 PPM	BEHAVIOR/CNS	11-01-01	10:40	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-02-01	10:37	P	NO REACTION TO STIMULUS
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:46	P	NO REACTION TO STIMULUS
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	BEHAVIOR/CNS	11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:17	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-24-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	NO REACTION TO STIMULUS
				11-29-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720 M	2500 PPM	BEHAVIOR/CNS	12-06-01	11:00	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-07-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-10-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-11-01	12:05	P	NO REACTION TO STIMULUS
			12-12-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-13-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-14-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-15-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-16-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-17-01	11:07	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-18-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-19-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-20-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	BEHAVIOR/CNS	12-21-01	11:10	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P NO REACTION TO STIMULUS
				12-23-01	10:30	P NO REACTION TO STIMULUS
				12-24-01	10:56	P NO REACTION TO STIMULUS
				12-25-01	12:04	P NO REACTION TO STIMULUS
				12-26-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P NO REACTION TO STIMULUS
				12-28-01	11:16	P NO REACTION TO STIMULUS
				12-29-01	10:51	P NO REACTION TO STIMULUS
				12-30-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:57	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:20	P NO REACTION TO STIMULUS
				01-06-02	11:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74720	M	2500 PPM	01-09-02	11:40	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74723	M	2500 PPM	01-10-02	11:50	P	NO REACTION TO STIMULUS
			09-04-01	11:47	P	NO REACTION TO STIMULUS
			09-05-01	11:33	P	NO REACTION TO STIMULUS
			09-06-01	11:47	P	NO REACTION TO STIMULUS
			09-07-01	11:38	P	NO REACTION TO STIMULUS
			09-08-01	11:21	P	NO REACTION TO STIMULUS
			09-09-01	10:33	P	NO REACTION TO STIMULUS
			09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:45	P	NO REACTION TO STIMULUS
			09-13-01	11:30	P	NO REACTION TO STIMULUS
			09-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-15-01	10:57	P	NO REACTION TO STIMULUS
			09-16-01	11:05	P	NO REACTION TO STIMULUS
			09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-18-01	11:45	P	NO REACTION TO STIMULUS
			09-19-01	11:45	P	NO REACTION TO STIMULUS
			09-20-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-21-01	11:37	P	NO REACTION TO STIMULUS
			09-22-01	11:20	P	NO REACTION TO STIMULUS
			09-23-01	10:54	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74723	M	2500 PPM	BEHAVIOR/CNS	09-24-01	11:37	P NO REACTION TO STIMULUS
				09-25-01	12:56	P NO REACTION TO STIMULUS
				09-26-01	11:33	P NO REACTION TO STIMULUS
				09-27-01	11:42	P NO REACTION TO STIMULUS
				09-28-01	11:30	P NO REACTION TO STIMULUS
				09-29-01	11:01	P NO REACTION TO STIMULUS
				09-30-01	11:00	P NO REACTION TO STIMULUS
				10-01-01	11:26	P NO REACTION TO STIMULUS
				10-02-01	11:52	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:26	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:19	P NO REACTION TO STIMULUS
				10-06-01	10:54	P NO REACTION TO STIMULUS
				10-07-01	10:47	P NO REACTION TO STIMULUS
				10-08-01	14:31	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:15	P NO REACTION TO STIMULUS
				10-10-01	12:00	P NO REACTION TO STIMULUS
				10-11-01	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-13-01	10:50	P NO REACTION TO STIMULUS
				10-14-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74723	M	2500 PPM	BEHAVIOR/CNS	10-16-01	11:58	P	NO REACTION TO STIMULUS
				10-17-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:15	P	NO REACTION TO STIMULUS
				10-19-01	11:20	P	NO REACTION TO STIMULUS
				10-20-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	NO REACTION TO STIMULUS
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74723	M	2500 PPM	BEHAVIOR/CNS	11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:33	P	NO REACTION TO STIMULUS
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	NO REACTION TO STIMULUS
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	11:03	P	NO REACTION TO STIMULUS
				11-22-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74723	M	2500 PPM	BEHAVIOR/CNS	11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-08-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74723	M	2500 PPM	BEHAVIOR/CNS	12-13-01	11:15	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-14-01	11:05	P	NO REACTION TO STIMULUS
				12-15-01	10:40	P	NO REACTION TO STIMULUS
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:08	P	NO REACTION TO STIMULUS
				12-21-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 129 (F0 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74723	M	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PCRDv4.05  
12/11/2002

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74756	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:06	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	NO REACTION TO STIMULUS
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74756	F	0 PPM	BEHAVIOR/CNS	09-21-01	11:22	P	STIMULUS WAS HEARD
				09-22-01	11:05	P	NO REACTION TO STIMULUS
				09-23-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:04	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74756	F	0 PPM	BEHAVIOR/CNS	10-06-01	10:39	P	NO REACTION TO STIMULUS
				10-07-01	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:35	P	NO REACTION TO STIMULUS
				10-15-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	10:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-18-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:32	P	NO REACTION TO STIMULUS
				10-21-01	10:24	P	NO REACTION TO STIMULUS
				10-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74756	F	0 PPM	10-24-01	11:05	P	STIMULUS WAS HEARD
			10-25-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-26-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-27-01	10:49	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-31-01	11:40	P	NO REACTION TO STIMULUS
			11-01-01	10:25	P	NO REACTION TO STIMULUS
			11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-03-01	10:50	P	NO REACTION TO STIMULUS
			11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-07-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-08-01	11:17	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74756	F	0 PPM	11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-10-01	10:00	P	NO REACTION TO STIMULUS
			11-11-01	11:07	P	NO REACTION TO STIMULUS
			11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-13-01	10:55	P	NO REACTION TO STIMULUS
			11-14-01	11:20	P	NO REACTION TO STIMULUS
			11-15-01	10:49	P	NO REACTION TO STIMULUS
			11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-18-01	11:19	P	NO REACTION TO STIMULUS
			11-19-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-21-01	10:48	P	NO REACTION TO STIMULUS
			11-22-01	10:03	P	NO REACTION TO STIMULUS
			11-23-01	10:02	P	NO REACTION TO STIMULUS
			11-24-01	10:28	P	NO REACTION TO STIMULUS
			11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-28-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74756	F	0 PPM	11-29-01	10:45	P	STIMULUS WAS HEARD
			11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-01-01	11:02	P	NO REACTION TO STIMULUS
			12-02-01	11:08	P	NO REACTION TO STIMULUS
			12-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-06-01	10:45	P	NO REACTION TO STIMULUS
			12-07-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-08-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-09-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-10-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-11-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-13-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74756	F	0 PPM	BEHAVIOR/CNS	12-15-01	10:25	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-16-01	10:25	P	NO REACTION TO STIMULUS
				12-17-01	10:52	P	NO REACTION TO STIMULUS
				12-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:53	P	NO REACTION TO STIMULUS
				12-21-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	NO REACTION TO STIMULUS
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74756	F	0 PPM	BEHAVIOR/CNS	01-03-02	11:10	P	STIMULUS WAS HEARD				
				01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-05-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-06-02	11:40	P	NO REACTION TO STIMULUS				
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				01-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				74772	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
								09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-06-01	11:32	P	NO REACTION TO STIMULUS								
09-07-01	11:23	P	NO REACTION TO STIMULUS								
09-08-01	11:06	P	NO REACTION TO STIMULUS								
09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74772	F	0 PPM	BEHAVIOR/CNS	09-14-01	11:20	P	STIMULUS WAS HEARD
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	NO REACTION TO STIMULUS
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:22	P	NO REACTION TO STIMULUS
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	NO REACTION TO STIMULUS
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:42	P	NO REACTION TO STIMULUS
				09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:11	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772	F	0 PPM	10-02-01	11:37	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-04-01	11:05	P	NO REACTION TO STIMULUS
			10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-06-01	10:39	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-07-01	10:32	P	NO REACTION TO STIMULUS
			10-08-01	14:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-10-01	11:45	P	NO REACTION TO STIMULUS
			10-11-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-12-01	11:19	P	NO REACTION TO STIMULUS
			10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	NO REACTION TO STIMULUS
			10-17-01	10:58	P	NO REACTION TO STIMULUS
			10-18-01	11:00	P	NO REACTION TO STIMULUS
			10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772	F	0 PPM	10-21-01	10:24	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-22-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-25-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-26-01	10:45	P	NO REACTION TO STIMULUS
			10-27-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-29-01	11:05	P	NO REACTION TO STIMULUS
			10-30-01	11:00	P	NO REACTION TO STIMULUS
			10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-01-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-04-01	10:40	P	NO REACTION TO STIMULUS
			11-05-01	11:00	P	NO REACTION TO STIMULUS
			11-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74772	F	0 PPM	BEHAVIOR/CNS	11-07-01	10:55	P	STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:15	P	NO REACTION TO STIMULUS
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-19-01	10:43	P	NO REACTION TO STIMULUS
				11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74772	F	0 PPM	BEHAVIOR/CNS	11-23-01	10:02	P	STIMULUS WAS HEARD
				11-24-01	10:28	P	NO REACTION TO STIMULUS
				11-25-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:10	P	NO REACTION TO STIMULUS
				11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:30	P	NO REACTION TO STIMULUS
				11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:02	P	NO REACTION TO STIMULUS
				12-02-01	11:08	P	NO REACTION TO STIMULUS
				12-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	10:55	P	NO REACTION TO STIMULUS
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-09-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-10-01	10:50	P	NO REACTION TO STIMULUS

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772	F	0 PPM	BEHAVIOR/CNS	12-16-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:05	P	NO REACTION TO STIMULUS
				12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	10:55	P	NO REACTION TO STIMULUS
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:01	P	NO REACTION TO STIMULUS
				12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772	F	0 PPM	BEHAVIOR/CNS	01-04-02	11:30	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-05-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74808	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808	F	0 PPM	BEHAVIOR/CNS	09-15-01	10:42	P	STIMULUS WAS HEARD
				09-16-01	10:50	P	NO REACTION TO STIMULUS
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:22	P	NO REACTION TO STIMULUS
				09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:39	P	NO REACTION TO STIMULUS
				09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:44	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808	F	0 PPM	BEHAVIOR/CNS	10-01-01	11:11	P	NO REACTION TO STIMULUS
				10-02-01	11:37	P	NO REACTION TO STIMULUS
				10-03-01	11:11	P	NO REACTION TO STIMULUS
				10-04-01	11:05	P	NO REACTION TO STIMULUS
				10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:39	P	NO REACTION TO STIMULUS
				10-07-01	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	NO REACTION TO STIMULUS
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:35	P	NO REACTION TO STIMULUS
				10-15-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808	F	0 PPM	BEHAVIOR/CNS	10-20-01	10:32	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				10-21-01	10:24	P	NO REACTION TO STIMULUS
				10-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:00	P	NO REACTION TO STIMULUS
				10-26-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808	F	0 PPM	BEHAVIOR/CNS	11-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:00	P	NO REACTION TO STIMULUS
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	NO REACTION TO STIMULUS
				11-20-01	10:55	P	NO REACTION TO STIMULUS
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:02	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-24-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808	F	0 PPM	BEHAVIOR/CNS	11-25-01	10:25	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:30	P	NO REACTION TO STIMULUS
				11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:08	P	NO REACTION TO STIMULUS
				12-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:25	P	NO REACTION TO STIMULUS
				12-16-01	10:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808	F	0 PPM	BEHAVIOR/CNS	12-17-01	10:52	P	NO REACTION TO STIMULUS
				12-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	NO REACTION TO STIMULUS
				12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	NO REACTION TO STIMULUS
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808	F	0 PPM	BEHAVIOR/CNS	01-04-02	11:30	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
74815	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	NO REACTION TO STIMULUS
				09-06-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:22	P	NO REACTION TO STIMULUS
				09-11-01	11:32	P	NO REACTION TO STIMULUS
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM				STIMULUS WAS HEARD
			09-14-01	11:20	P	NO REACTION TO STIMULUS
			09-13-01	11:15	P	NO REACTION TO STIMULUS
			09-15-01	10:42	P	NO REACTION TO STIMULUS
			09-16-01	10:50	P	NO REACTION TO STIMULUS
			09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-19-01	11:30	P	NO REACTION TO STIMULUS
			09-20-01	11:12	P	NO REACTION TO STIMULUS
			09-21-01	11:22	P	NO REACTION TO STIMULUS
			09-22-01	11:05	P	NO REACTION TO STIMULUS
			09-23-01	10:39	P	NO REACTION TO STIMULUS
			09-24-01	11:22	P	NO REACTION TO STIMULUS
			09-25-01	12:41	P	NO REACTION TO STIMULUS
			09-26-01	11:18	P	NO REACTION TO STIMULUS
			09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-28-01	11:15	P	NO REACTION TO STIMULUS
			09-29-01	10:42	P	NO REACTION TO STIMULUS
			09-30-01	10:44	P	NO REACTION TO STIMULUS
			10-01-01	11:11	P	NO REACTION TO STIMULUS
			10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-04-01	11:05	P	NO REACTION TO STIMULUS
			10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	10-06-01	10:39	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-07-01	10:32	P	NO REACTION TO STIMULUS
			10-08-01	14:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-09-01	13:00	P	NO REACTION TO STIMULUS
			10-10-01	11:45	P	NO REACTION TO STIMULUS
			10-11-01	11:30	P	NO REACTION TO STIMULUS
			10-12-01	11:19	P	NO REACTION TO STIMULUS
			10-13-01	10:35	P	NO REACTION TO STIMULUS
			10-14-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	NO REACTION TO STIMULUS
			10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:00	P	NO REACTION TO STIMULUS
			10-19-01	11:05	P	NO REACTION TO STIMULUS
			10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-21-01	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-22-01	11:20	P	NO REACTION TO STIMULUS
			10-23-01	11:00	P	NO REACTION TO STIMULUS
			10-24-01	11:05	P	NO REACTION TO STIMULUS
			10-25-01	11:00	P	NO REACTION TO STIMULUS
			10-26-01	10:45	P	NO REACTION TO STIMULUS
			10-27-01	10:49	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	BEHAVIOR/CNS	10-28-01	10:56	P	NO REACTION TO STIMULUS
				10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:00	P	NO REACTION TO STIMULUS
				10-31-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:25	P	NO REACTION TO STIMULUS
				11-02-01	10:22	P	NO REACTION TO STIMULUS
				11-03-01	10:50	P	NO REACTION TO STIMULUS
				11-04-01	10:40	P	NO REACTION TO STIMULUS
				11-05-01	11:00	P	NO REACTION TO STIMULUS
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	NO REACTION TO STIMULUS
				11-08-01	11:17	P	NO REACTION TO STIMULUS
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	NO REACTION TO STIMULUS
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	NO REACTION TO STIMULUS
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	NO REACTION TO STIMULUS

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	BEHAVIOR/CNS	11-20-01	10:55	P	NO REACTION TO STIMULUS
				11-21-01	10:48	P	NO REACTION TO STIMULUS
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:02	P	NO REACTION TO STIMULUS
				11-24-01	10:28	P	NO REACTION TO STIMULUS
				11-25-01	10:25	P	NO REACTION TO STIMULUS
				11-26-01	11:10	P	NO REACTION TO STIMULUS
				11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:30	P	NO REACTION TO STIMULUS
				11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:40	P	NO REACTION TO STIMULUS
				12-01-01	11:02	P	NO REACTION TO STIMULUS
				12-02-01	11:08	P	NO REACTION TO STIMULUS
				12-03-01	10:50	P	NO REACTION TO STIMULUS
				12-04-01	10:55	P	NO REACTION TO STIMULUS
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:45	P	NO REACTION TO STIMULUS
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	NO REACTION TO STIMULUS
				12-09-01	10:50	P	NO REACTION TO STIMULUS
				12-10-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	11:50	P	NO REACTION TO STIMULUS
				12-12-01	10:45	P	NO REACTION TO STIMULUS
				12-13-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	12-14-01	10:50	P	NO REACTION TO STIMULUS
			12-15-01	10:25	P	NO REACTION TO STIMULUS
			12-16-01	10:25	P	NO REACTION TO STIMULUS
			12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-18-01	11:05	P	NO REACTION TO STIMULUS
			12-19-01	10:45	P	NO REACTION TO STIMULUS
			12-20-01	10:53	P	NO REACTION TO STIMULUS
			12-21-01	10:55	P	NO REACTION TO STIMULUS
			12-22-01	10:45	P	NO REACTION TO STIMULUS
			12-23-01	10:15	P	NO REACTION TO STIMULUS
			12-24-01	10:41	P	NO REACTION TO STIMULUS
			12-25-01	11:49	P	NO REACTION TO STIMULUS
			12-26-01	10:50	P	NO REACTION TO STIMULUS
			12-27-01	11:05	P	NO REACTION TO STIMULUS
			12-28-01	11:01	P	NO REACTION TO STIMULUS
			12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-30-01	10:30	P	NO REACTION TO STIMULUS
			12-31-01	10:42	P	NO REACTION TO STIMULUS
			01-01-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			01-02-02	11:03	P	NO REACTION TO STIMULUS
			01-03-02	11:10	P	NO REACTION TO STIMULUS
			01-04-02	11:30	P	NO REACTION TO STIMULUS
			01-05-02	12:05	P	NO REACTION TO STIMULUS
			01-06-02	11:40	P	NO REACTION TO STIMULUS
			01-07-02	11:20	P	NO REACTION TO STIMULUS
			01-08-02	11:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74815	F	0 PPM	BEHAVIOR/CNS	01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
74826	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-05-01	11:18	P	NO REACTION TO STIMULUS
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	NO REACTION TO STIMULUS
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:20	P	NO REACTION TO STIMULUS
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	NO REACTION TO STIMULUS
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	NO REACTION TO STIMULUS
				09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826 F	0 PPM	BEHAVIOR/CNS	09-20-01	11:12	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
			09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-23-01	10:39	P	NO REACTION TO STIMULUS
			09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-25-01	12:41	P	NO REACTION TO STIMULUS
			09-26-01	11:18	P	NO REACTION TO STIMULUS
			09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-29-01	10:42	P	NO REACTION TO STIMULUS
			09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:11	P	NO REACTION TO STIMULUS
			10-04-01	11:05	P	NO REACTION TO STIMULUS
			10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-06-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
10-07-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	10-08-01	14:16	P	STIMULUS WAS HEARD
			10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-10-01	11:45	P	NO REACTION TO STIMULUS
			10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-11-01	11:30	P	NO REACTION TO STIMULUS
			10-12-01	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:00	P	NO REACTION TO STIMULUS
			10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:32	P	NO REACTION TO STIMULUS
			10-21-01	10:24	P	NO REACTION TO STIMULUS
			10-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-25-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	10-26-01	10:45	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
			10-27-01	10:49	P	NO REACTION TO STIMULUS
			10-28-01	10:56	P	NO REACTION TO STIMULUS
			10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-01-01	10:25	P	NO REACTION TO STIMULUS
			11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-03-01	10:50	P	NO REACTION TO STIMULUS
			11-04-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:00	P	NO REACTION TO STIMULUS
			11-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-09-01	10:31	P	NO REACTION TO STIMULUS
			11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-11-01	11:07	P	NO REACTION TO STIMULUS
			11-12-01	10:40	P	NO REACTION TO STIMULUS
			11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	11-14-01	11:20	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-15-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-16-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-17-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-18-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-19-01	10:43	P	NO REACTION TO STIMULUS
			11-20-01	10:55	P	NO REACTION TO STIMULUS
			11-21-01	10:48	P	NO REACTION TO STIMULUS
			11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-23-01	10:02	P	NO REACTION TO STIMULUS
			11-24-01	10:28	P	NO REACTION TO STIMULUS
			11-25-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-28-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-29-01	10:45	P	NO REACTION TO STIMULUS
			11-30-01	10:40	P	NO REACTION TO STIMULUS
			12-01-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	12-02-01	11:08	P	STIMULUS WAS HEARD
			12-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-06-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-07-01	10:30	P	NO REACTION TO STIMULUS
			12-13-01	11:00	P	NO REACTION TO STIMULUS
			12-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-15-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-16-01	10:25	P	NO REACTION TO STIMULUS
			12-17-01	10:52	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			12-18-01	11:05	P	NO REACTION TO STIMULUS
			12-19-01	10:45	P	NO REACTION TO STIMULUS
			12-20-01	10:53	P	NO REACTION TO STIMULUS
			12-21-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-23-01	10:15	P	NO REACTION TO STIMULUS
			12-24-01	10:41	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826	F	0 PPM	BEHAVIOR/CNS	12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	NO REACTION TO STIMULUS
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:30	P	NO REACTION TO STIMULUS
				12-31-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:11	P	NO REACTION TO STIMULUS
74842	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74842	F	0 PPM	BEHAVIOR/CNS	09-07-01	11:23	P	STIMULUS WAS HEARD
				09-08-01	11:06	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	NO REACTION TO STIMULUS
				09-14-01	11:20	P	NO REACTION TO STIMULUS
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:39	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74842	F	0 PPM	BEHAVIOR/CNS	09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:27	P	NO REACTION TO STIMULUS
				09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:42	P	NO REACTION TO STIMULUS
				09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:11	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:39	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-07-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:16	P	NO REACTION TO STIMULUS
				10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74842	F	0 PPM	BEHAVIOR/CNS	10-11-01	11:30	P	STIMULUS WAS HEARD
				10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:35	P	NO REACTION TO STIMULUS
				10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	10:58	P	NO REACTION TO STIMULUS
				10-18-01	11:00	P	NO REACTION TO STIMULUS
				10-19-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:24	P	NO REACTION TO STIMULUS
				10-22-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:45	P	NO REACTION TO STIMULUS
				10-27-01	10:49	P	NO REACTION TO STIMULUS

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74842	F	0 PPM	BEHAVIOR/CNS	10-28-01	10:56	P	NO REACTION TO STIMULUS
				10-29-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-01-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:40	P	NO REACTION TO STIMULUS
				11-05-01	11:00	P	NO REACTION TO STIMULUS
				11-06-01	11:00	P	NO REACTION TO STIMULUS
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:31	P	NO REACTION TO STIMULUS
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:07	P	NO REACTION TO STIMULUS
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74842	F	0 PPM	11-15-01	10:49	P	STIMULUS WAS HEARD
			11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-17-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-18-01	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-19-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-20-01	10:55	P	NO REACTION TO STIMULUS
			11-21-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-23-01	10:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-24-01	10:28	P	NO REACTION TO STIMULUS
			11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-26-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-27-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-28-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-29-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-30-01	10:40	P	NO REACTION TO STIMULUS
					P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74842	F	0 PPM	BEHAVIOR/CNS	12-01-01	11:02	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-02-01	11:08	P	NO REACTION TO STIMULUS
				12-03-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:30	P	NO REACTION TO STIMULUS
				12-08-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-09-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:50	P	NO REACTION TO STIMULUS
				12-11-01	11:50	P	NO REACTION TO STIMULUS
				12-12-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:00	P	NO REACTION TO STIMULUS
				12-14-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74842	F	0 PPM	BEHAVIOR/CNS	12-18-01	11:05	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-19-01	10:45	P	NO REACTION TO STIMULUS
				12-20-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:41	P	NO REACTION TO STIMULUS
				12-25-01	11:49	P	NO REACTION TO STIMULUS
				12-26-01	10:50	P	NO REACTION TO STIMULUS
				12-27-01	11:05	P	NO REACTION TO STIMULUS
				12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:42	P	NO REACTION TO STIMULUS
				01-01-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74842	F	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74867	F	0 PPM	BEHAVIOR/CNS	09-04-01	11:32	P	NO REACTION TO STIMULUS
				09-05-01	11:18	P	NO REACTION TO STIMULUS
				09-06-01	11:32	P	NO REACTION TO STIMULUS
				09-07-01	11:23	P	NO REACTION TO STIMULUS
				09-08-01	11:05	P	NO REACTION TO STIMULUS
				09-09-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-10-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:42	P	NO REACTION TO STIMULUS
				09-16-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:28	P	NO REACTION TO STIMULUS
				09-18-01	11:30	P	NO REACTION TO STIMULUS
				09-19-01	11:30	P	NO REACTION TO STIMULUS
				09-20-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867	F	0 PPM	09-21-01	11:22	P	STIMULUS WAS HEARD
			09-22-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-23-01	10:39	P	NO REACTION TO STIMULUS
			09-24-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-25-01	12:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-26-01	11:18	P	NO REACTION TO STIMULUS
			09-27-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-28-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-29-01	10:42	P	NO REACTION TO STIMULUS
			09-30-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-01-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-02-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-04-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-05-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-06-01	10:39	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867	F	0 PPM	10-07-01	10:32	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-08-01	14:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-09-01	13:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-10-01	11:45	P	NO REACTION TO STIMULUS
			10-11-01	11:30	P	NO REACTION TO STIMULUS
			10-12-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-13-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-14-01	10:35	P	NO REACTION TO STIMULUS
			10-15-01	10:55	P	NO REACTION TO STIMULUS
			10-16-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-17-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-18-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			10-19-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-20-01	10:32	P	NO REACTION TO STIMULUS
			10-21-01	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-22-01	11:20	P	NO REACTION TO STIMULUS
			10-23-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-24-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867	F	0 PPM	BEHAVIOR/CNS	10-25-01	11:00	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-26-01	10:45	P	NO REACTION TO STIMULUS
				10-27-01	10:49	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-28-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-29-01	11:05	P	NO REACTION TO STIMULUS
				10-30-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-31-01	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-01-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-02-01	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-03-01	10:50	P	NO REACTION TO STIMULUS
				11-04-01	10:40	P	NO REACTION TO STIMULUS
				11-05-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-06-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-07-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-08-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-09-01	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-10-01	10:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867	F	0 PPM	BEHAVIOR/CNS	11-11-01	11:07	P	STIMULUS WAS HEARD
				11-12-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:49	P	NO REACTION TO STIMULUS
				11-16-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:19	P	NO REACTION TO STIMULUS
				11-19-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867	F	0 PPM	BEHAVIOR/CNS	11-27-01	11:26	P	VOCALIZATION) NO REACTION TO STIMULUS
				11-28-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-29-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:40	P	NO REACTION TO STIMULUS
				12-01-01	11:02	P	NO REACTION TO STIMULUS
				12-02-01	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-03-01	10:50	P	NO REACTION TO STIMULUS
				12-04-01	10:55	P	NO REACTION TO STIMULUS
				12-11-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:45	P	NO REACTION TO STIMULUS
				12-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867	F	0 PPM	12-21-01	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-22-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-23-01	10:15	P	NO REACTION TO STIMULUS
			12-24-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-25-01	11:49	P	NO REACTION TO STIMULUS
			12-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-27-01	11:05	P	NO REACTION TO STIMULUS
			12-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-29-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			12-30-01	10:30	P	NO REACTION TO STIMULUS
			12-31-01	10:42	P	NO REACTION TO STIMULUS
			01-01-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-02-02	11:03	P	NO REACTION TO STIMULUS
			01-03-02	11:10	P	NO REACTION TO STIMULUS
			01-04-02	11:30	P	NO REACTION TO STIMULUS
			01-05-02	12:05	P	NO REACTION TO STIMULUS
			01-06-02	11:40	P	NO REACTION TO STIMULUS
			01-07-02	11:20	P	NO REACTION TO STIMULUS
			01-08-02	11:55	P	NO REACTION TO STIMULUS
			01-09-02	11:25	P	NO REACTION TO STIMULUS
			01-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867	F	0 PPM	BEHAVIOR/CNS	01-11-02	11:10	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74782	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	NO REACTION TO STIMULUS

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782	F	500 PPM	BEHAVIOR/CNS	09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:46	P	NO REACTION TO STIMULUS
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	NO REACTION TO STIMULUS
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

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SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74782	F	500 PPM	BEHAVIOR/CNS	10-09-01	13:05	P	STIMULUS WAS HEARD
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-11-01	11:35	P	STIMULUS WAS HEARD
				10-12-01	11:24	P	NO REACTION TO STIMULUS
				10-13-01	10:40	P	NO REACTION TO STIMULUS
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-15-01	11:00	P	STIMULUS WAS HEARD
				10-16-01	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-17-01	11:03	P	STIMULUS WAS HEARD
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				10-21-01	10:29	P	VOCALIZATION)
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-24-01	11:10	P	STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	NO REACTION TO STIMULUS
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74782	F	500 PPM	BEHAVIOR/CNS	10-28-01	11:01	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	NO REACTION TO STIMULUS
				11-01-01	10:30	P	NO REACTION TO STIMULUS
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:05	P	NO REACTION TO STIMULUS
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74782	F	500 PPM	BEHAVIOR/CNS	11-16-01	11:20	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	NO REACTION TO STIMULUS
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	NO REACTION TO STIMULUS
				11-25-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:07	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782	F	500 PPM	BEHAVIOR/CNS	12-02-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	NO REACTION TO STIMULUS
				12-11-01	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:10	P	NO REACTION TO STIMULUS
				12-19-01	10:50	P	NO REACTION TO STIMULUS
				12-20-01	10:58	P	NO REACTION TO STIMULUS
				12-21-01	11:00	P	NO REACTION TO STIMULUS
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	NO REACTION TO STIMULUS
				12-24-01	10:46	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782	F	500 PPM	BEHAVIOR/CNS	12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	NO REACTION TO STIMULUS
				12-27-01	11:10	P	NO REACTION TO STIMULUS
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:16	P	NO REACTION TO STIMULUS
74796	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	09-06-01	11:37	P	STIMULUS WAS HEARD
				09-07-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:23	P	NO REACTION TO STIMULUS
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	09-22-01	11:10	P	STIMULUS WAS HEARD
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	NO REACTION TO STIMULUS

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796	F	500 PPM	BEHAVIOR/CNS	10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-25-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:50	P	NO REACTION TO STIMULUS

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796	F	500 PPM	BEHAVIOR/CNS	10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	11-12-01	10:45	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	NO REACTION TO STIMULUS
				11-16-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:24	P	NO REACTION TO STIMULUS
				11-19-01	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	NO REACTION TO STIMULUS
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:31	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	11-29-01	10:50	P	STIMULUS WAS HEARD
				11-30-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	12-21-01	11:00	P	STIMULUS WAS HEARD
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P	NO REACTION TO STIMULUS
				12-25-01	11:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:47	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-01-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796	F	500 PPM	BEHAVIOR/CNS	01-07-02	11:25	P	STIMULUS WAS HEARD
							MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-11-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74797	F	500 PPM	BEHAVIOR/CNS	09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	NO REACTION TO STIMULUS
				09-11-01	11:37	P	NO REACTION TO STIMULUS
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74797	F	500 PPM	BEHAVIOR/CNS	09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	NO REACTION TO STIMULUS
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	NO REACTION TO STIMULUS
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	NO REACTION TO STIMULUS
				10-01-01	11:16	P	NO REACTION TO STIMULUS
				10-02-01	11:42	P	NO REACTION TO STIMULUS
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	NO REACTION TO STIMULUS
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74797	F	500 PPM	BEHAVIOR/CNS	10-11-01	11:35	P NO REACTION TO STIMULUS
				10-12-01	11:24	P NO REACTION TO STIMULUS
				10-13-01	10:40	P NO REACTION TO STIMULUS
				10-14-01	10:40	P NO REACTION TO STIMULUS
				10-15-01	11:00	P NO REACTION TO STIMULUS
				10-16-01	11:48	P NO REACTION TO STIMULUS
				10-17-01	11:03	P NO REACTION TO STIMULUS
				10-18-01	11:05	P NO REACTION TO STIMULUS
				10-19-01	11:10	P NO REACTION TO STIMULUS
				10-20-01	10:37	P NO REACTION TO STIMULUS
				10-21-01	10:29	P NO REACTION TO STIMULUS
				10-22-01	11:25	P NO REACTION TO STIMULUS
				10-23-01	11:05	P NO REACTION TO STIMULUS
				10-24-01	11:10	P NO REACTION TO STIMULUS
				10-25-01	11:05	P NO REACTION TO STIMULUS
				10-26-01	10:50	P NO REACTION TO STIMULUS
				10-27-01	10:54	P NO REACTION TO STIMULUS
				10-28-01	11:01	P NO REACTION TO STIMULUS
				10-29-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:05	P NO REACTION TO STIMULUS
				10-31-01	11:45	P NO REACTION TO STIMULUS
				11-01-01	10:30	P NO REACTION TO STIMULUS
				11-02-01	10:27	P NO REACTION TO STIMULUS
				11-03-01	10:55	P NO REACTION TO STIMULUS
				11-04-01	10:45	P NO REACTION TO STIMULUS
				11-05-01	11:05	P NO REACTION TO STIMULUS
				11-06-01	11:05	P NO REACTION TO STIMULUS
				11-07-01	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74797	F	500 PPM	BEHAVIOR/CNS	11-08-01	11:22	P	NO REACTION TO STIMULUS
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	NO REACTION TO STIMULUS
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	NO REACTION TO STIMULUS
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	NO REACTION TO STIMULUS
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74797	F	500 PPM	BEHAVIOR/CNS	11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	NO REACTION TO STIMULUS
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	NO REACTION TO STIMULUS
				12-13-01	11:05	P	NO REACTION TO STIMULUS
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	NO REACTION TO STIMULUS
				12-16-01	10:30	P	NO REACTION TO STIMULUS
				12-17-01	10:57	P	NO REACTION TO STIMULUS
				12-18-01	11:10	P	NO REACTION TO STIMULUS
				12-19-01	10:50	P	NO REACTION TO STIMULUS
				12-20-01	10:58	P	NO REACTION TO STIMULUS
				12-21-01	11:00	P	NO REACTION TO STIMULUS
				12-22-01	10:50	P	NO REACTION TO STIMULUS
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74797	F	500 PPM	BEHAVIOR/CNS	12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	NO REACTION TO STIMULUS
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	NO REACTION TO STIMULUS
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74805	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-06-01	11:37	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74805	F	500 PPM	BEHAVIOR/CNS	09-07-01	11:28	P NO REACTION TO STIMULUS
				09-08-01	11:11	P NO REACTION TO STIMULUS
				09-09-01	10:23	P NO REACTION TO STIMULUS
				09-10-01	11:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:47	P NO REACTION TO STIMULUS
				09-16-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P NO REACTION TO STIMULUS
				09-21-01	11:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74805	F	500 PPM	BEHAVIOR/CNS	09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74805	F	500 PPM	BEHAVIOR/CNS	10-12-01	11:24	P	STIMULUS WAS HEARD
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	11:00	P	NO REACTION TO STIMULUS
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74805	F	500 PPM	BEHAVIOR/CNS	10-30-01	11:05	P	STIMULUS WAS HEARD
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:05	P	NO REACTION TO STIMULUS
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:00	P	NO REACTION TO STIMULUS
				11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74805	F	500 PPM	BEHAVIOR/CNS	11-16-01	11:20	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-17-01	11:20	P	NO REACTION TO STIMULUS
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-20-01	11:00	P	NO REACTION TO STIMULUS
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-24-01	10:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				11-28-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-29-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74805	F	500 PPM	BEHAVIOR/CNS	12-02-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74812	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-13-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
09-17-01	11:33	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74812	F	500 PPM	BEHAVIOR/CNS	09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74812	F	500 PPM	BEHAVIOR/CNS	10-04-01	11:10	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:24	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:00	P	NO REACTION TO STIMULUS
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74812	F	500 PPM	BEHAVIOR/CNS	10-20-01	10:37	P	STIMULUS WAS HEARD
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	NO REACTION TO STIMULUS
				11-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74812	F	500 PPM	BEHAVIOR/CNS	11-05-01	11:05	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-06-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:05	P	NO REACTION TO STIMULUS
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:20	P	NO REACTION TO STIMULUS
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74812	F	500 PPM	BEHAVIOR/CNS	11-22-01	10:08	P	STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-29-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-11-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74812	F	500 PPM	BEHAVIOR/CNS	12-12-01	10:50	P	STIMULUS WAS HEARD
				12-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:30	P	NO REACTION TO STIMULUS
				12-17-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74812	F	500 PPM	BEHAVIOR/CNS	12-27-01	11:10	P	STIMULUS WAS HEARD
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74812	F	500 PPM	BEHAVIOR/CNS	01-14-02	11:52	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74819	F	500 PPM	BEHAVIOR/CNS	01-10-02	11:40	P	NO REACTION TO STIMULUS
				09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	NO REACTION TO STIMULUS
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74819	F	500 PPM	BEHAVIOR/CNS	09-21-01	11:27	P	STIMULUS WAS HEARD
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BEHAVIOR/CNS	10-07-01	10:37	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-13-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-14-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-16-01	11:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-20-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BEHAVIOR/CNS	10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-26-01	10:50	P	NO REACTION TO STIMULUS
				10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74819	F	500 PPM	BEHAVIOR/CNS	11-09-01	10:36	P	STIMULUS WAS HEARD
				11-10-01	10:05	P	NO REACTION TO STIMULUS
				11-11-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BEHAVIOR/CNS	11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-07-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BEHAVIOR/CNS	12-18-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P	NO REACTION TO STIMULUS
				12-21-01	11:00	P	NO REACTION TO STIMULUS
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	NO REACTION TO STIMULUS
				12-24-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	NO REACTION TO STIMULUS
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-01-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819	F	500 PPM	BEHAVIOR/CNS	01-06-02	11:45	P	STIMULUS WAS HEARD
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74823	F	500 PPM	BEHAVIOR/CNS	01-09-02	11:30	P	NO REACTION TO STIMULUS
				09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	NO REACTION TO STIMULUS
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	NO REACTION TO STIMULUS
				09-10-01	11:27	P	NO REACTION TO STIMULUS
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74823	F	500 PPM	BEHAVIOR/CNS	09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	NO REACTION TO STIMULUS
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	NO REACTION TO STIMULUS
				10-02-01	11:42	P	NO REACTION TO STIMULUS
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:35	P	NO REACTION TO STIMULUS
				10-12-01	11:24	P	NO REACTION TO STIMULUS
				10-13-01	10:40	P	NO REACTION TO STIMULUS
				10-14-01	10:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74823	F	500 PPM	BEHAVIOR/CNS	10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	NO REACTION TO STIMULUS
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	NO REACTION TO STIMULUS
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	NO REACTION TO STIMULUS
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	NO REACTION TO STIMULUS
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	NO REACTION TO STIMULUS
				11-02-01	10:27	P	NO REACTION TO STIMULUS
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	NO REACTION TO STIMULUS
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74823	F	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			11-09-01	10:36	P	NO REACTION TO STIMULUS
			11-10-01	10:05	P	NO REACTION TO STIMULUS
			11-11-01	11:12	P	NO REACTION TO STIMULUS
			11-12-01	10:45	P	NO REACTION TO STIMULUS
			11-13-01	11:00	P	NO REACTION TO STIMULUS
			11-14-01	11:25	P	NO REACTION TO STIMULUS
			11-15-01	10:54	P	NO REACTION TO STIMULUS
			11-16-01	11:20	P	NO REACTION TO STIMULUS
			11-17-01	11:20	P	NO REACTION TO STIMULUS
			11-18-01	11:24	P	NO REACTION TO STIMULUS
			11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-20-01	11:00	P	NO REACTION TO STIMULUS
			11-21-01	10:53	P	NO REACTION TO STIMULUS
			11-22-01	10:08	P	NO REACTION TO STIMULUS
			11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-25-01	10:30	P	NO REACTION TO STIMULUS
			11-26-01	11:15	P	NO REACTION TO STIMULUS
			11-27-01	11:31	P	NO REACTION TO STIMULUS
			11-28-01	10:35	P	NO REACTION TO STIMULUS
			11-29-01	10:50	P	NO REACTION TO STIMULUS
			11-30-01	10:45	P	NO REACTION TO STIMULUS
			12-01-01	11:07	P	NO REACTION TO STIMULUS
			12-02-01	11:13	P	NO REACTION TO STIMULUS
			12-03-01	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74823	F	500 PPM	BEHAVIOR/CNS	12-04-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:05	P NO REACTION TO STIMULUS
				12-06-01	10:50	P NO REACTION TO STIMULUS
				12-12-01	10:50	P NO REACTION TO STIMULUS
				12-13-01	11:05	P NO REACTION TO STIMULUS
				12-14-01	10:55	P NO REACTION TO STIMULUS
				12-15-01	10:30	P NO REACTION TO STIMULUS
				12-16-01	10:30	P NO REACTION TO STIMULUS
				12-17-01	10:57	P NO REACTION TO STIMULUS
				12-18-01	11:10	P NO REACTION TO STIMULUS
				12-19-01	10:50	P NO REACTION TO STIMULUS
				12-20-01	10:58	P NO REACTION TO STIMULUS
				12-21-01	11:00	P NO REACTION TO STIMULUS
				12-22-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P NO REACTION TO STIMULUS
				12-24-01	10:46	P NO REACTION TO STIMULUS
				12-25-01	11:54	P NO REACTION TO STIMULUS
				12-26-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P NO REACTION TO STIMULUS
				12-28-01	11:06	P NO REACTION TO STIMULUS
				12-29-01	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P NO REACTION TO STIMULUS
				12-31-01	10:47	P NO REACTION TO STIMULUS
				01-01-02	11:45	P NO REACTION TO STIMULUS
				01-02-02	11:08	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74823	F	500 PPM	BEHAVIOR/CNS	01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
74835	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	NO REACTION TO STIMULUS
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	NO REACTION TO STIMULUS
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74835	F	500 PPM	BEHAVIOR/CNS	09-19-01	11:35	P	STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				09-21-01	11:27	P	STIMULUS WAS HEARD
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	NO REACTION TO STIMULUS
				09-25-01	12:46	P	NO REACTION TO STIMULUS
				09-26-01	11:23	P	NO REACTION TO STIMULUS
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				09-28-01	11:20	P	STIMULUS WAS HEARD
				09-29-01	10:51	P	NO REACTION TO STIMULUS
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-01-01	11:16	P	STIMULUS WAS HEARD
				10-02-01	11:42	P	NO REACTION TO STIMULUS
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				10-06-01	10:44	P	STIMULUS WAS HEARD
				10-07-01	10:37	P	NO REACTION TO STIMULUS
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	NO REACTION TO STIMULUS
				10-11-01	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835	F	500 PPM	BEHAVIOR/CNS	10-12-01	11:24	P	NO REACTION TO STIMULUS
				10-13-01	10:40	P	NO REACTION TO STIMULUS
				10-14-01	10:40	P	NO REACTION TO STIMULUS
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	NO REACTION TO STIMULUS
				10-24-01	11:10	P	NO REACTION TO STIMULUS
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	NO REACTION TO STIMULUS
				10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	NO REACTION TO STIMULUS
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	NO REACTION TO STIMULUS
				11-01-01	10:30	P	NO REACTION TO STIMULUS
				11-02-01	10:27	P	NO REACTION TO STIMULUS
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835	F	500 PPM	BEHAVIOR/CNS	11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	NO REACTION TO STIMULUS
				11-08-01	11:22	P	NO REACTION TO STIMULUS
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	NO REACTION TO STIMULUS
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835	F	500 PPM	BEHAVIOR/CNS	11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	NO REACTION TO STIMULUS
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	NO REACTION TO STIMULUS
				12-13-01	11:05	P	NO REACTION TO STIMULUS
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	NO REACTION TO STIMULUS
				12-16-01	10:30	P	NO REACTION TO STIMULUS
				12-17-01	10:57	P	NO REACTION TO STIMULUS
				12-18-01	11:10	P	NO REACTION TO STIMULUS
				12-19-01	10:50	P	NO REACTION TO STIMULUS
				12-20-01	10:58	P	NO REACTION TO STIMULUS
				12-21-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835	F	500 PPM	BEHAVIOR/CNS	12-23-01	10:20	P	NO REACTION TO STIMULUS
				12-24-01	10:46	P	NO REACTION TO STIMULUS
				12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	NO REACTION TO STIMULUS
				12-28-01	11:06	P	NO REACTION TO STIMULUS
				12-29-01	10:41	P	NO REACTION TO STIMULUS
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P	NO REACTION TO STIMULUS
74838	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838	F	500 PPM				STIMULUS WAS HEARD
		BEHAVIOR/CNS	09-08-01	11:11	P	NO REACTION TO STIMULUS
			09-09-01	10:23	P	NO REACTION TO STIMULUS
			09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:35	P	NO REACTION TO STIMULUS
			09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-13-01	11:20	P	NO REACTION TO STIMULUS
			09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-21-01	11:27	P	NO REACTION TO STIMULUS
			09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-24-01	11:27	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838	F	500 PPM	BEHAVIOR/CNS	09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838	F	500 PPM	BEHAVIOR/CNS	10-11-01	11:35	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:24	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-13-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838	F	500 PPM	BEHAVIOR/CNS	10-26-01	10:50	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	NO REACTION TO STIMULUS
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838	F	500 PPM	BEHAVIOR/CNS	11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	NO REACTION TO STIMULUS
				11-16-01	11:20	P	NO REACTION TO STIMULUS
				11-17-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:00	P	NO REACTION TO STIMULUS
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	NO REACTION TO STIMULUS
				11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838	F	500 PPM	BEHAVIOR/CNS	11-28-01	10:35	P	STIMULUS WAS HEARD
				11-29-01	10:50	P	NO REACTION TO STIMULUS
				11-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:07	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-11-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838	F	500 PPM	BEHAVIOR/CNS	12-19-01	10:50	P	STIMULUS WAS HEARD
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	NO REACTION TO STIMULUS
				12-22-01	10:50	P	NO REACTION TO STIMULUS
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74838 F	500 PPM	BEHAVIOR/CNS	01-05-02	12:10	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS			
			01-06-02	11:45	P	NO REACTION TO STIMULUS			
			01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-08-02	12:00	P	NO REACTION TO STIMULUS			
			01-09-02	11:30	P	NO REACTION TO STIMULUS			
			01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-13-02	12:16	P	NO REACTION TO STIMULUS			
			74859 F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	NO REACTION TO STIMULUS
						09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						09-06-01	11:37	P	NO REACTION TO STIMULUS
						09-07-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-08-01	11:11	P				NO REACTION TO STIMULUS			
09-09-01	10:23	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-10-01	11:27	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT						

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	09-13-01	11:20	P	STIMULUS WAS HEARD
				09-15-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	09-29-01	10:51	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-01-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-02-01	11:42	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
			VOCALIZATION)				
10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
10-09-01	13:05	P	NO REACTION TO STIMULUS				
10-10-01	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				
			VOCALIZATION)				
10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
10-13-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	10-15-01	11:00	P	STIMULUS WAS HEARD
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-19-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-30-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74859	F	500 PPM	BEHAVIOR/CNS	10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	NO REACTION TO STIMULUS
				11-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:54	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-16-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	11-17-01	11:20	P	STIMULUS WAS HEARD
				11-18-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P	NO REACTION TO STIMULUS
				11-24-01	10:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	NO REACTION TO STIMULUS
				11-27-01	11:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:13	P	NO REACTION TO STIMULUS

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74859	F	500 PPM	BEHAVIOR/CNS	12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	12-24-01	10:46	P	STIMULUS WAS HEARD
				12-25-01	11:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:41	P	NO REACTION TO STIMULUS
				12-30-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74859	F	500 PPM	BEHAVIOR/CNS	01-09-02	11:30	P	STIMULUS WAS HEARD
				01-10-02	11:40	P	NO REACTION TO STIMULUS
74863	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	NO REACTION TO STIMULUS
				09-06-01	11:37	P	NO REACTION TO STIMULUS
				09-07-01	11:28	P	NO REACTION TO STIMULUS
				09-08-01	11:11	P	NO REACTION TO STIMULUS
				09-09-01	10:23	P	NO REACTION TO STIMULUS
				09-10-01	11:27	P	NO REACTION TO STIMULUS
				09-11-01	11:37	P	NO REACTION TO STIMULUS
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	NO REACTION TO STIMULUS
				09-13-01	11:20	P	NO REACTION TO STIMULUS
				09-15-01	10:47	P	NO REACTION TO STIMULUS
				09-16-01	10:55	P	NO REACTION TO STIMULUS
				09-17-01	11:33	P	NO REACTION TO STIMULUS
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	NO REACTION TO STIMULUS
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	NO REACTION TO STIMULUS
				09-22-01	11:10	P	NO REACTION TO STIMULUS
				09-23-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-24-01	11:27	P	NO REACTION TO STIMULUS				
09-25-01	12:46	P	NO REACTION TO STIMULUS				
09-26-01	11:23	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863	F	500 PPM	BEHAVIOR/CNS	09-27-01	11:32	P	NO REACTION TO STIMULUS
				09-28-01	11:20	P	NO REACTION TO STIMULUS
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:16	P	NO REACTION TO STIMULUS
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	NO REACTION TO STIMULUS
				10-04-01	11:10	P	NO REACTION TO STIMULUS
				10-05-01	11:09	P	NO REACTION TO STIMULUS
				10-06-01	10:44	P	NO REACTION TO STIMULUS
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	NO REACTION TO STIMULUS
				10-09-01	13:05	P	NO REACTION TO STIMULUS
				10-10-01	11:50	P	NO REACTION TO STIMULUS
				10-11-01	11:35	P	NO REACTION TO STIMULUS
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:40	P	NO REACTION TO STIMULUS
				10-14-01	10:40	P	NO REACTION TO STIMULUS
				10-15-01	11:00	P	NO REACTION TO STIMULUS
				10-16-01	11:48	P	NO REACTION TO STIMULUS
				10-17-01	11:03	P	NO REACTION TO STIMULUS
				10-18-01	11:05	P	NO REACTION TO STIMULUS
				10-19-01	11:10	P	NO REACTION TO STIMULUS
				10-20-01	10:37	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863	F	500 PPM	BEHAVIOR/CNS	10-21-01	10:29	P	NO REACTION TO STIMULUS
				10-22-01	11:25	P	NO REACTION TO STIMULUS
				10-23-01	11:05	P	NO REACTION TO STIMULUS
				10-24-01	11:10	P	NO REACTION TO STIMULUS
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:54	P	NO REACTION TO STIMULUS
				10-28-01	11:01	P	NO REACTION TO STIMULUS
				10-29-01	11:10	P	NO REACTION TO STIMULUS
				10-30-01	11:05	P	NO REACTION TO STIMULUS
				10-31-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:30	P	NO REACTION TO STIMULUS
				11-02-01	10:27	P	NO REACTION TO STIMULUS
				11-03-01	10:55	P	NO REACTION TO STIMULUS
				11-04-01	10:45	P	NO REACTION TO STIMULUS
				11-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:05	P	NO REACTION TO STIMULUS
				11-07-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P	NO REACTION TO STIMULUS
				11-10-01	10:05	P	NO REACTION TO STIMULUS
				11-11-01	11:12	P	NO REACTION TO STIMULUS
				11-12-01	10:45	P	NO REACTION TO STIMULUS
				11-13-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863	F	500 PPM	BEHAVIOR/CNS	11-14-01	11:25	P	NO REACTION TO STIMULUS
				11-15-01	10:54	P	NO REACTION TO STIMULUS
				11-16-01	11:20	P	NO REACTION TO STIMULUS
				11-17-01	11:20	P	NO REACTION TO STIMULUS
				11-18-01	11:24	P	NO REACTION TO STIMULUS
				11-19-01	10:48	P	NO REACTION TO STIMULUS
				11-20-01	11:00	P	NO REACTION TO STIMULUS
				11-21-01	10:53	P	NO REACTION TO STIMULUS
				11-22-01	10:08	P	NO REACTION TO STIMULUS
				11-23-01	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:30	P	NO REACTION TO STIMULUS
				11-26-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:31	P	NO REACTION TO STIMULUS
				11-28-01	10:35	P	NO REACTION TO STIMULUS
				11-29-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P	NO REACTION TO STIMULUS
				12-01-01	11:07	P	NO REACTION TO STIMULUS
				12-02-01	11:13	P	NO REACTION TO STIMULUS
				12-03-01	10:55	P	NO REACTION TO STIMULUS
				12-04-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-06-01	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863	F	500 PPM	BEHAVIOR/CNS	12-07-01	10:35	P	NO REACTION TO STIMULUS
				12-14-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	NO REACTION TO STIMULUS
				12-17-01	10:57	P	NO REACTION TO STIMULUS
				12-18-01	11:10	P	NO REACTION TO STIMULUS
				12-19-01	10:50	P	NO REACTION TO STIMULUS
				12-20-01	10:58	P	NO REACTION TO STIMULUS
				12-21-01	11:00	P	NO REACTION TO STIMULUS
				12-22-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:20	P	NO REACTION TO STIMULUS
				12-24-01	10:46	P	NO REACTION TO STIMULUS
				12-25-01	11:54	P	NO REACTION TO STIMULUS
				12-26-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-27-01	11:10	P	NO REACTION TO STIMULUS
				12-28-01	11:06	P	NO REACTION TO STIMULUS
				12-29-01	10:41	P	NO REACTION TO STIMULUS
				12-30-01	10:35	P	NO REACTION TO STIMULUS
				12-31-01	10:47	P	NO REACTION TO STIMULUS
				01-01-02	11:45	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS

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PROJECT NO.:WIL-186013F  
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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863	F	500 PPM	BEHAVIOR/CNS	01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	NO REACTION TO STIMULUS
74873	F	500 PPM	BEHAVIOR/CNS	09-04-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74873	F	500 PPM	BEHAVIOR/CNS	09-15-01	10:47	P	STIMULUS WAS HEARD
				09-16-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:35	P	NO REACTION TO STIMULUS
				09-19-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:17	P	NO REACTION TO STIMULUS
				09-21-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:44	P	NO REACTION TO STIMULUS
				09-24-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74873	F	500 PPM	BEHAVIOR/CNS	10-01-01	11:16	P	STIMULUS WAS HEARD
				10-02-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-05-01	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:44	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74873	F	500 PPM	BEHAVIOR/CNS	10-16-01	11:48	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:37	P	NO REACTION TO STIMULUS
				10-21-01	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-23-01	11:05	P	NO REACTION TO STIMULUS
				10-24-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:05	P	NO REACTION TO STIMULUS
				10-26-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:01	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-29-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74873	F	500 PPM	BEHAVIOR/CNS	11-01-01	10:30	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:27	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-06-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:00	P NO REACTION TO STIMULUS
				11-08-01	11:22	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:36	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-10-01	10:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:12	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:25	P NO REACTION TO STIMULUS
				11-15-01	10:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74873	F	500 PPM	BEHAVIOR/CNS	11-17-01	11:20	P VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:24	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-19-01	10:48	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:53	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:33	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:31	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74873	F	500 PPM	BEHAVIOR/CNS	12-02-01	11:13	P	STIMULUS WAS HEARD
				12-03-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:00	P	NO REACTION TO STIMULUS
				12-05-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-11-01	11:55	P	NO REACTION TO STIMULUS
				12-12-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74873	F	500 PPM	BEHAVIOR/CNS	12-22-01	10:50	P VOCALIZATION)
				12-23-01	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:46	P NO REACTION TO STIMULUS
				12-25-01	11:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:06	P NO REACTION TO STIMULUS
				12-29-01	10:41	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:47	P NO REACTION TO STIMULUS
				01-01-02	11:45	P NO REACTION TO STIMULUS
				01-02-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74873	F	500 PPM	BEHAVIOR/CNS	01-08-02	12:00	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74743	F	1000 PPM	BEHAVIOR/CNS	01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-04-01	11:42	P	NO REACTION TO STIMULUS
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	NO REACTION TO STIMULUS
				09-08-01	11:16	P	NO REACTION TO STIMULUS
				09-09-01	10:28	P	NO REACTION TO STIMULUS
				09-10-01	11:32	P	NO REACTION TO STIMULUS
09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-14-01	11:30	P	NO REACTION TO STIMULUS				
09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743	F	1000 PPM	BEHAVIOR/CNS	09-17-01	11:38	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				09-18-01	11:40	P	NO REACTION TO STIMULUS
				09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	NO REACTION TO STIMULUS
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743	F	1000 PPM	BEHAVIOR/CNS	10-06-01	10:49	P	STIMULUS WAS HEARD
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	NO REACTION TO STIMULUS
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743	F	1000 PPM	BEHAVIOR/CNS	10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:55	P	NO REACTION TO STIMULUS
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	NO REACTION TO STIMULUS
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743	F	1000 PPM	BEHAVIOR/CNS	11-12-01	10:50	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	NO REACTION TO STIMULUS
				11-17-01	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:29	P	NO REACTION TO STIMULUS
				11-19-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	NO REACTION TO STIMULUS
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-27-01	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743	F	1000 PPM	BEHAVIOR/CNS	12-01-01	11:12	P	STIMULUS WAS HEARD
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-15-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-16-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743	F	1000 PPM	BEHAVIOR/CNS	12-24-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-29-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743	F	1000 PPM	BEHAVIOR/CNS	01-11-02	11:20	P	STIMULUS WAS HEARD
				01-13-02	12:21	P	NO REACTION TO STIMULUS
74744	F	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:16	P	NO REACTION TO STIMULUS
				09-09-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:32	P	NO REACTION TO STIMULUS
				09-11-01	11:42	P	NO REACTION TO STIMULUS
				09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:30	P	NO REACTION TO STIMULUS
				09-13-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-19-01	11:40	P	NO REACTION TO STIMULUS				
09-20-01	11:22	P	NO REACTION TO STIMULUS				
09-21-01	11:32	P	NO REACTION TO STIMULUS				
09-22-01	11:15	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744	F	1000 PPM	BEHAVIOR/CNS	09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	NO REACTION TO STIMULUS
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	NO REACTION TO STIMULUS
				10-15-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74744	F	1000 PPM	BEHAVIOR/CNS	10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	NO REACTION TO STIMULUS
				10-26-01	10:55	P	NO REACTION TO STIMULUS
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	NO REACTION TO STIMULUS
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	NO REACTION TO STIMULUS
				11-05-01	11:10	P	NO REACTION TO STIMULUS
				11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	NO REACTION TO STIMULUS
				11-08-01	11:28	P	NO REACTION TO STIMULUS
				11-09-01	10:41	P	NO REACTION TO STIMULUS
				11-10-01	10:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744	F	1000 PPM	BEHAVIOR/CNS	11-11-01	11:17	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:50	P NO REACTION TO STIMULUS
				11-13-01	11:05	P NO REACTION TO STIMULUS
				11-14-01	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P NO REACTION TO STIMULUS
				11-16-01	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P NO REACTION TO STIMULUS
				11-18-01	11:29	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P NO REACTION TO STIMULUS
				11-20-01	11:05	P NO REACTION TO STIMULUS
				11-21-01	10:58	P NO REACTION TO STIMULUS
				11-22-01	10:13	P NO REACTION TO STIMULUS
				11-23-01	10:12	P NO REACTION TO STIMULUS
				11-24-01	10:38	P NO REACTION TO STIMULUS
				11-25-01	10:35	P NO REACTION TO STIMULUS
				11-26-01	11:20	P NO REACTION TO STIMULUS
				11-27-01	11:36	P NO REACTION TO STIMULUS
				11-28-01	10:40	P NO REACTION TO STIMULUS
				11-29-01	10:55	P NO REACTION TO STIMULUS
				11-30-01	10:50	P NO REACTION TO STIMULUS
				12-01-01	11:12	P NO REACTION TO STIMULUS
				12-02-01	11:18	P NO REACTION TO STIMULUS
				12-03-01	11:00	P NO REACTION TO STIMULUS
				12-04-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-05-01	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744	F	1000 PPM	BEHAVIOR/CNS	12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-08-01	10:52	P	NO REACTION TO STIMULUS
				12-09-01	11:00	P	NO REACTION TO STIMULUS
				12-10-01	11:00	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	NO REACTION TO STIMULUS
				12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744	F	1000 PPM	BEHAVIOR/CNS	01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
74777	F	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	NO REACTION TO STIMULUS
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	NO REACTION TO STIMULUS
				09-08-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:28	P	NO REACTION TO STIMULUS
				09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:52	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74777	F	1000 PPM	BEHAVIOR/CNS	09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-04-01	11:15	P	NO REACTION TO STIMULUS
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74777	F	1000 PPM	BEHAVIOR/CNS	10-09-01	13:10	P	STIMULUS WAS HEARD
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	NO REACTION TO STIMULUS
				10-12-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:15	P	NO REACTION TO STIMULUS
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74777	F	1000 PPM	BEHAVIOR/CNS	10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	NO REACTION TO STIMULUS
				10-29-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	NO REACTION TO STIMULUS
				11-06-01	11:10	P	NO REACTION TO STIMULUS
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:10	P	NO REACTION TO STIMULUS
				11-11-01	11:17	P	NO REACTION TO STIMULUS
				11-12-01	10:50	P	NO REACTION TO STIMULUS
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74777	F	1000 PPM	BEHAVIOR/CNS	11-15-01	10:59	P	NO REACTION TO STIMULUS
				11-16-01	11:25	P	NO REACTION TO STIMULUS
				11-17-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:29	P	NO REACTION TO STIMULUS
				11-19-01	10:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-20-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-24-01	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74777	F	1000 PPM	BEHAVIOR/CNS	12-04-01	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-10-01	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-11-01	12:00	P NO REACTION TO STIMULUS
				12-12-01	10:55	P NO REACTION TO STIMULUS
				12-13-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:00	P NO REACTION TO STIMULUS
				12-15-01	10:35	P NO REACTION TO STIMULUS
				12-16-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:15	P NO REACTION TO STIMULUS
				12-19-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:03	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P NO REACTION TO STIMULUS
				12-22-01	10:55	P NO REACTION TO STIMULUS
				12-23-01	10:25	P NO REACTION TO STIMULUS
				12-24-01	10:51	P NO REACTION TO STIMULUS
				12-25-01	11:59	P NO REACTION TO STIMULUS
				12-26-01	11:00	P NO REACTION TO STIMULUS
				12-27-01	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-29-01	10:46	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74777 F	1000 PPM	BEHAVIOR/CNS	12-30-01	10:40	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS			
			12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-01-02	11:50	P	NO REACTION TO STIMULUS			
			01-02-02	11:13	P	NO REACTION TO STIMULUS			
			01-03-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-04-02	11:40	P	NO REACTION TO STIMULUS			
			01-05-02	12:15	P	NO REACTION TO STIMULUS			
			01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-08-02	12:05	P	NO REACTION TO STIMULUS			
			01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-10-02	11:45	P	NO REACTION TO STIMULUS			
			74799 F	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						09-05-01	11:28	P	NO REACTION TO STIMULUS
						09-06-01	11:42	P	NO REACTION TO STIMULUS
09-07-01	11:33	P				NO REACTION TO STIMULUS			
09-08-01	11:16	P				NO REACTION TO STIMULUS			
09-09-01	10:28	P				NO REACTION TO STIMULUS			
09-10-01	11:32	P				NO REACTION TO STIMULUS			
09-11-01	11:42	P				NO REACTION TO STIMULUS			
09-12-01	11:40	P	NO REACTION TO STIMULUS						
			09-14-01	11:30	P	NO REACTION TO STIMULUS			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BEHAVIOR/CNS	09-13-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	NO REACTION TO STIMULUS
				09-16-01	11:00	P	NO REACTION TO STIMULUS
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	NO REACTION TO STIMULUS
				09-19-01	11:40	P	NO REACTION TO STIMULUS
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	NO REACTION TO STIMULUS
				09-22-01	11:15	P	NO REACTION TO STIMULUS
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	NO REACTION TO STIMULUS
				09-30-01	10:55	P	NO REACTION TO STIMULUS
				10-01-01	11:21	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	NO REACTION TO STIMULUS
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	NO REACTION TO STIMULUS
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BEHAVIOR/CNS	10-09-01	13:10	P NO REACTION TO STIMULUS
				10-10-01	11:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:29	P NO REACTION TO STIMULUS
				10-13-01	10:45	P NO REACTION TO STIMULUS
				10-14-01	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-15-01	11:05	P NO REACTION TO STIMULUS
				10-16-01	11:53	P NO REACTION TO STIMULUS
				10-17-01	11:08	P NO REACTION TO STIMULUS
				10-18-01	11:10	P NO REACTION TO STIMULUS
				10-19-01	11:15	P NO REACTION TO STIMULUS
				10-20-01	10:42	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P NO REACTION TO STIMULUS
				10-22-01	11:30	P NO REACTION TO STIMULUS
				10-23-01	11:10	P NO REACTION TO STIMULUS
				10-24-01	11:15	P NO REACTION TO STIMULUS
				10-25-01	11:10	P NO REACTION TO STIMULUS
				10-26-01	10:55	P NO REACTION TO STIMULUS
				10-27-01	10:59	P NO REACTION TO STIMULUS
				10-28-01	11:06	P NO REACTION TO STIMULUS
				10-29-01	11:15	P NO REACTION TO STIMULUS
				10-30-01	11:10	P NO REACTION TO STIMULUS
				10-31-01	11:50	P NO REACTION TO STIMULUS
				11-01-01	10:35	P NO REACTION TO STIMULUS
				11-02-01	10:32	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BEHAVIOR/CNS	11-03-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:50	P NO REACTION TO STIMULUS
				11-05-01	11:10	P NO REACTION TO STIMULUS
				11-06-01	11:10	P NO REACTION TO STIMULUS
				11-07-01	11:05	P NO REACTION TO STIMULUS
				11-08-01	11:28	P NO REACTION TO STIMULUS
				11-09-01	10:41	P NO REACTION TO STIMULUS
				11-10-01	10:10	P NO REACTION TO STIMULUS
				11-11-01	11:17	P NO REACTION TO STIMULUS
				11-12-01	10:50	P NO REACTION TO STIMULUS
				11-13-01	11:05	P NO REACTION TO STIMULUS
				11-14-01	11:30	P NO REACTION TO STIMULUS
				11-15-01	10:59	P NO REACTION TO STIMULUS
				11-16-01	11:25	P NO REACTION TO STIMULUS
				11-17-01	11:25	P NO REACTION TO STIMULUS
				11-18-01	11:29	P NO REACTION TO STIMULUS
				11-19-01	10:53	P NO REACTION TO STIMULUS
				11-20-01	11:05	P NO REACTION TO STIMULUS
				11-21-01	10:58	P NO REACTION TO STIMULUS
				11-22-01	10:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:12	P NO REACTION TO STIMULUS
				11-24-01	10:38	P NO REACTION TO STIMULUS
				11-25-01	10:35	P NO REACTION TO STIMULUS
				11-26-01	11:20	P NO REACTION TO STIMULUS
				11-27-01	11:36	P NO REACTION TO STIMULUS
				11-28-01	10:40	P NO REACTION TO STIMULUS
				11-29-01	10:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799	F	1000 PPM	BEHAVIOR/CNS	11-30-01	10:50	P	NO REACTION TO STIMULUS
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-06-01	10:55	P	NO REACTION TO STIMULUS
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	NO REACTION TO STIMULUS
				12-16-01	10:35	P	NO REACTION TO STIMULUS
				12-17-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	NO REACTION TO STIMULUS
				12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	NO REACTION TO STIMULUS
				12-24-01	10:51	P	NO REACTION TO STIMULUS
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	NO REACTION TO STIMULUS
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74799 F	1000 PPM	BEHAVIOR/CNS	12-31-01	10:52	P	NO REACTION TO STIMULUS
			01-01-02	11:50	P	NO REACTION TO STIMULUS
			01-02-02	11:13	P	NO REACTION TO STIMULUS
			01-03-02	11:20	P	NO REACTION TO STIMULUS
			01-04-02	11:40	P	NO REACTION TO STIMULUS
			01-05-02	12:15	P	NO REACTION TO STIMULUS
			01-06-02	11:50	P	NO REACTION TO STIMULUS
			01-07-02	11:30	P	NO REACTION TO STIMULUS
			01-08-02	12:05	P	NO REACTION TO STIMULUS
			01-09-02	11:35	P	NO REACTION TO STIMULUS
74820 F	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-05-01	11:28	P	NO REACTION TO STIMULUS
			09-06-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-08-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-09-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-10-01	11:32	P	NO REACTION TO STIMULUS
			09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-12-01	11:40	P	NO REACTION TO STIMULUS
			09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT			

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74820	F	1000 PPM	BEHAVIOR/CNS	09-16-01	11:00	P	STIMULUS WAS HEARD
				09-17-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:40	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	NO REACTION TO STIMULUS
				09-20-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-21-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	NO REACTION TO STIMULUS
				09-25-01	12:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	NO REACTION TO STIMULUS
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74820	F	1000 PPM	BEHAVIOR/CNS	10-04-01	11:15	P	STIMULUS WAS HEARD
				10-05-01	11:14	P	NO REACTION TO STIMULUS
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:10	P	NO REACTION TO STIMULUS
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:45	P	NO REACTION TO STIMULUS
				10-14-01	10:45	P	NO REACTION TO STIMULUS
				10-15-01	11:05	P	NO REACTION TO STIMULUS
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	NO REACTION TO STIMULUS
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	NO REACTION TO STIMULUS
				10-22-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820	F	1000 PPM	BEHAVIOR/CNS	10-24-01	11:15	P	NO REACTION TO STIMULUS
				10-25-01	11:10	P	NO REACTION TO STIMULUS
				10-26-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P	NO REACTION TO STIMULUS
				10-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	NO REACTION TO STIMULUS
				11-10-01	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74820	F	1000 PPM	BEHAVIOR/CNS	11-11-01	11:17	P	STIMULUS WAS HEARD
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:05	P	NO REACTION TO STIMULUS
				11-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P	NO REACTION TO STIMULUS
				11-16-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	NO REACTION TO STIMULUS
				11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-21-01	10:58	P	NO REACTION TO STIMULUS
				11-22-01	10:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	NO REACTION TO STIMULUS
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74820	F	1000 PPM	BEHAVIOR/CNS	12-01-01	11:12	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	NO REACTION TO STIMULUS
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-11-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-20-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P	NO REACTION TO STIMULUS
				12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:51	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820	F	1000 PPM	BEHAVIOR/CNS	12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:15	P	NO REACTION TO STIMULUS
				12-28-01	11:11	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-29-01	10:46	P	NO REACTION TO STIMULUS
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-11-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820	F	1000 PPM	BEHAVIOR/CNS	01-13-02	12:21	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74858	F	1000 PPM	BEHAVIOR/CNS	09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:33	P	NO REACTION TO STIMULUS
				09-08-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:28	P	NO REACTION TO STIMULUS
				09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:42	P	NO REACTION TO STIMULUS
				09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:30	P	NO REACTION TO STIMULUS
				09-13-01	11:25	P	NO REACTION TO STIMULUS
				09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:38	P	NO REACTION TO STIMULUS
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74858	F	1000 PPM	BEHAVIOR/CNS	09-21-01	11:32	P	STIMULUS WAS HEARD
				09-22-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:51	P	NO REACTION TO STIMULUS
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:56	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:49	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74858	F	1000 PPM	BEHAVIOR/CNS	10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:45	P	NO REACTION TO STIMULUS
				10-15-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:53	P	NO REACTION TO STIMULUS
				10-17-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:10	P	NO REACTION TO STIMULUS
				10-19-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	NO REACTION TO STIMULUS
				10-23-01	11:10	P	NO REACTION TO STIMULUS
				10-24-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74858	F	1000 PPM	BEHAVIOR/CNS	10-26-01	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:15	P	NO REACTION TO STIMULUS
				10-30-01	11:10	P	NO REACTION TO STIMULUS
				10-31-01	11:50	P	NO REACTION TO STIMULUS
				11-01-01	10:35	P	NO REACTION TO STIMULUS
				11-02-01	10:32	P	NO REACTION TO STIMULUS
				11-03-01	11:00	P	NO REACTION TO STIMULUS
				11-04-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-10-01	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74858	F	1000 PPM	BEHAVIOR/CNS	11-13-01	11:05	P	STIMULUS WAS HEARD
				11-14-01	11:30	P	NO REACTION TO STIMULUS
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:12	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74858	F	1000 PPM	BEHAVIOR/CNS	11-29-01	10:55	P	STIMULUS WAS HEARD
				11-30-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:18	P	NO REACTION TO STIMULUS
				12-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-06-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-07-01	10:40	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-17-01	11:02	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-18-01	11:15	P	NO REACTION TO STIMULUS
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74858	F	1000 PPM	BEHAVIOR/CNS	12-22-01	10:55	P	NO REACTION TO STIMULUS
				12-23-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-30-01	10:40	P	NO REACTION TO STIMULUS
				12-31-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-01-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-02-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74858	F	1000 PPM	BEHAVIOR/CNS	01-09-02	11:35	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
74871	F	1000 PPM	BEHAVIOR/CNS	01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-04-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-05-01	11:28	P	NO REACTION TO STIMULUS
				09-06-01	11:42	P	NO REACTION TO STIMULUS
				09-07-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-08-01	11:16	P	NO REACTION TO STIMULUS
				09-09-01	10:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				09-10-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
			STIMULUS WAS HEARD				
09-11-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-12-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-13-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-15-01	10:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
09-16-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74871	F	1000 PPM	BEHAVIOR/CNS	09-17-01	11:38	P	STIMULUS WAS HEARD
				09-18-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-19-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:22	P	NO REACTION TO STIMULUS
				09-21-01	11:32	P	NO REACTION TO STIMULUS
				09-22-01	11:15	P	NO REACTION TO STIMULUS
				09-23-01	10:49	P	NO REACTION TO STIMULUS
				09-24-01	11:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:28	P	NO REACTION TO STIMULUS
				09-27-01	11:37	P	NO REACTION TO STIMULUS
				09-28-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:47	P	NO REACTION TO STIMULUS
				10-03-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74871	F	1000 PPM	BEHAVIOR/CNS	10-05-01	11:14	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:49	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-07-01	10:42	P	NO REACTION TO STIMULUS
				10-08-01	14:26	P	NO REACTION TO STIMULUS
				10-09-01	13:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	11:55	P	NO REACTION TO STIMULUS
				10-11-01	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:29	P	NO REACTION TO STIMULUS
				10-13-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:45	P	NO REACTION TO STIMULUS
				10-15-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-17-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:42	P	NO REACTION TO STIMULUS
				10-21-01	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74871	F	1000 PPM	BEHAVIOR/CNS	10-23-01	11:10	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-24-01	11:15	P NO REACTION TO STIMULUS
				10-25-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-26-01	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	10:59	P NO REACTION TO STIMULUS
				10-28-01	11:06	P NO REACTION TO STIMULUS
				10-29-01	11:15	P NO REACTION TO STIMULUS
				10-30-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:32	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:28	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74871	F	1000 PPM	BEHAVIOR/CNS	11-09-01	10:41	P	STIMULUS WAS HEARD
				11-10-01	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	10:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:25	P	NO REACTION TO STIMULUS
				11-18-01	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:53	P	NO REACTION TO STIMULUS
				11-20-01	11:05	P	NO REACTION TO STIMULUS
				11-21-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:12	P	NO REACTION TO STIMULUS
				11-24-01	10:38	P	NO REACTION TO STIMULUS
				11-25-01	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74871	F	1000 PPM	BEHAVIOR/CNS	11-26-01	11:20	P	NO REACTION TO STIMULUS
				11-27-01	11:36	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:40	P	NO REACTION TO STIMULUS
				11-29-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-30-01	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:12	P	NO REACTION TO STIMULUS
				12-02-01	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-03-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:05	P	NO REACTION TO STIMULUS
				12-05-01	11:10	P	NO REACTION TO STIMULUS
				12-12-01	10:55	P	NO REACTION TO STIMULUS
				12-13-01	11:10	P	NO REACTION TO STIMULUS
				12-14-01	11:00	P	NO REACTION TO STIMULUS
				12-15-01	10:35	P	NO REACTION TO STIMULUS
				12-16-01	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-17-01	11:02	P	NO REACTION TO STIMULUS
				12-18-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	10:55	P	NO REACTION TO STIMULUS
				12-20-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-21-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74871	F	1000 PPM	BEHAVIOR/CNS	12-23-01	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	11:59	P	NO REACTION TO STIMULUS
				12-26-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-27-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:11	P	NO REACTION TO STIMULUS
				12-29-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:52	P	NO REACTION TO STIMULUS
				01-01-02	11:50	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74871	F	1000 PPM	BEHAVIOR/CNS	01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74750	F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	NO REACTION TO STIMULUS
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:47	P	NO REACTION TO STIMULUS
				09-12-01	11:45	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	NO REACTION TO STIMULUS
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:27	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74750	F	2500 PPM	BEHAVIOR/CNS	09-21-01	11:37	P	NO REACTION TO STIMULUS
				09-22-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	NO REACTION TO STIMULUS
				10-03-01	11:26	P	NO REACTION TO STIMULUS
				10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-08-01	14:31	P	NO REACTION TO STIMULUS
				10-09-01	13:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74750	F	2500 PPM	BEHAVIOR/CNS	10-13-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-16-01	11:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-25-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	NO REACTION TO STIMULUS
				10-30-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74750	F	2500 PPM	BEHAVIOR/CNS	11-01-01	10:40	P	STIMULUS WAS HEARD
				11-02-01	10:37	P	NO REACTION TO STIMULUS
				11-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74750	F	2500 PPM	BEHAVIOR/CNS	11-18-01	11:34	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				11-19-01	10:58	P	NO REACTION TO STIMULUS
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-25-01	10:40	P	NO REACTION TO STIMULUS
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	NO REACTION TO STIMULUS
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-10-01	11:05	P	NO REACTION TO STIMULUS
				12-11-01	12:05	P	NO REACTION TO STIMULUS
				12-12-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74750	F	2500 PPM	BEHAVIOR/CNS	12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	NO REACTION TO STIMULUS
				12-16-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74750	F	2500 PPM	BEHAVIOR/CNS	01-01-02	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
74754	F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	NO REACTION TO STIMULUS
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:47	P	NO REACTION TO STIMULUS
09-12-01	11:45	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754	F	2500 PPM	BEHAVIOR/CNS	09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:27	P	NO REACTION TO STIMULUS
				09-21-01	11:37	P	NO REACTION TO STIMULUS
				09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	NO REACTION TO STIMULUS
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-28-01	11:30	P	NO REACTION TO STIMULUS
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	NO REACTION TO STIMULUS
				10-03-01	11:26	P	NO REACTION TO STIMULUS
				10-04-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-05-01	11:19	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754	F	2500 PPM	BEHAVIOR/CNS	10-06-01	10:54	P NO REACTION TO STIMULUS
				10-07-01	10:47	P NO REACTION TO STIMULUS
				10-08-01	14:31	P NO REACTION TO STIMULUS
				10-09-01	13:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P NO REACTION TO STIMULUS
				10-13-01	10:50	P NO REACTION TO STIMULUS
				10-14-01	10:50	P NO REACTION TO STIMULUS
				10-15-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:58	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:13	P NO REACTION TO STIMULUS
				10-18-01	11:15	P NO REACTION TO STIMULUS
				10-19-01	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-20-01	10:47	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:15	P NO REACTION TO STIMULUS
				10-24-01	11:20	P NO REACTION TO STIMULUS
				10-25-01	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754 F	2500 PPM	BEHAVIOR/CNS	10-26-01	11:00	P	NO REACTION TO STIMULUS
			10-27-01	11:04	P	NO REACTION TO STIMULUS
			10-28-01	11:11	P	NO REACTION TO STIMULUS
			10-29-01	11:20	P	NO REACTION TO STIMULUS
			10-30-01	11:15	P	NO REACTION TO STIMULUS
			10-31-01	11:55	P	NO REACTION TO STIMULUS
			11-01-01	10:40	P	NO REACTION TO STIMULUS
			11-02-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			11-04-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-06-01	11:15	P	NO REACTION TO STIMULUS
			11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-08-01	11:33	P	NO REACTION TO STIMULUS
			11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-11-01	11:22	P	NO REACTION TO STIMULUS
			11-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			11-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74754	F	2500 PPM	BEHAVIOR/CNS	11-15-01	11:04	P	STIMULUS WAS HEARD
				11-16-01	11:30	P	NO REACTION TO STIMULUS
				11-17-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-18-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P	NO REACTION TO STIMULUS
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	NO REACTION TO STIMULUS
				11-25-01	10:40	P	NO REACTION TO STIMULUS
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754	F	2500 PPM	BEHAVIOR/CNS	12-05-01	11:15	P	NO REACTION TO STIMULUS
				12-06-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-17-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:20	P	NO REACTION TO STIMULUS
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74754 F	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS			
			01-04-02	11:45	P	NO REACTION TO STIMULUS			
			01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
			01-06-02	11:55	P	NO REACTION TO STIMULUS			
			01-07-02	11:35	P	NO REACTION TO STIMULUS			
			01-08-02	12:10	P	NO REACTION TO STIMULUS			
			01-09-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)			
			74769 F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	NO REACTION TO STIMULUS
						09-05-01	11:33	P	NO REACTION TO STIMULUS
09-06-01	11:47	P				NO REACTION TO STIMULUS			
09-07-01	11:38	P				NO REACTION TO STIMULUS			
09-08-01	11:21	P				NO REACTION TO STIMULUS			
09-09-01	10:33	P				NO REACTION TO STIMULUS			
09-10-01	11:37	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-11-01	11:47	P				NO REACTION TO STIMULUS			
09-12-01	11:45	P				SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD			
09-14-01	11:35	P				NO REACTION TO STIMULUS			
09-13-01	11:30	P				NO REACTION TO STIMULUS			
09-15-01	10:57	P				NO REACTION TO STIMULUS			
09-16-01	11:05	P				NO REACTION TO STIMULUS			
09-17-01	11:43	P	NO REACTION TO STIMULUS						
09-18-01	11:45	P	NO REACTION TO STIMULUS						
09-19-01	11:45	P	NO REACTION TO STIMULUS						
09-20-01	11:27	P	NO REACTION TO STIMULUS						

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769	F	2500 PPM	BEHAVIOR/CNS	09-21-01	11:37	P NO REACTION TO STIMULUS
				09-22-01	11:20	P NO REACTION TO STIMULUS
				09-23-01	10:54	P NO REACTION TO STIMULUS
				09-24-01	11:37	P NO REACTION TO STIMULUS
				09-25-01	12:56	P NO REACTION TO STIMULUS
				09-26-01	11:33	P NO REACTION TO STIMULUS
				09-27-01	11:42	P NO REACTION TO STIMULUS
				09-28-01	11:30	P NO REACTION TO STIMULUS
				09-29-01	11:01	P NO REACTION TO STIMULUS
				09-30-01	11:00	P NO REACTION TO STIMULUS
				10-01-01	11:26	P NO REACTION TO STIMULUS
				10-02-01	11:52	P NO REACTION TO STIMULUS
				10-03-01	11:26	P NO REACTION TO STIMULUS
				10-04-01	11:20	P NO REACTION TO STIMULUS
				10-05-01	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:54	P NO REACTION TO STIMULUS
				10-07-01	10:47	P NO REACTION TO STIMULUS
				10-08-01	14:31	P NO REACTION TO STIMULUS
				10-09-01	13:15	P NO REACTION TO STIMULUS
				10-10-01	12:00	P NO REACTION TO STIMULUS
				10-11-01	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P NO REACTION TO STIMULUS
				10-13-01	10:50	P NO REACTION TO STIMULUS
				10-14-01	10:50	P NO REACTION TO STIMULUS
				10-15-01	11:10	P NO REACTION TO STIMULUS
				10-16-01	11:58	P NO REACTION TO STIMULUS
				10-17-01	11:13	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769	F	2500 PPM	BEHAVIOR/CNS	10-18-01	11:15	P NO REACTION TO STIMULUS
				10-19-01	11:20	P NO REACTION TO STIMULUS
				10-20-01	10:47	P NO REACTION TO STIMULUS
				10-21-01	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P NO REACTION TO STIMULUS
				10-23-01	11:15	P NO REACTION TO STIMULUS
				10-24-01	11:20	P NO REACTION TO STIMULUS
				10-25-01	11:15	P NO REACTION TO STIMULUS
				10-26-01	11:00	P NO REACTION TO STIMULUS
				10-27-01	11:04	P NO REACTION TO STIMULUS
				10-28-01	11:11	P NO REACTION TO STIMULUS
				10-29-01	11:20	P NO REACTION TO STIMULUS
				10-30-01	11:15	P NO REACTION TO STIMULUS
				10-31-01	11:55	P NO REACTION TO STIMULUS
				11-01-01	10:40	P NO REACTION TO STIMULUS
				11-02-01	10:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P NO REACTION TO STIMULUS
				11-04-01	10:55	P NO REACTION TO STIMULUS
				11-05-01	11:15	P NO REACTION TO STIMULUS
				11-06-01	11:15	P NO REACTION TO STIMULUS
				11-07-01	11:10	P NO REACTION TO STIMULUS
				11-08-01	11:33	P NO REACTION TO STIMULUS
				11-09-01	10:46	P NO REACTION TO STIMULUS
				11-10-01	10:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P NO REACTION TO STIMULUS
				11-12-01	10:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769	F	2500 PPM	BEHAVIOR/CNS	11-13-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:35	P NO REACTION TO STIMULUS
				11-15-01	11:04	P NO REACTION TO STIMULUS
				11-16-01	11:30	P NO REACTION TO STIMULUS
				11-17-01	11:30	P NO REACTION TO STIMULUS
				11-18-01	11:34	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-19-01	10:58	P NO REACTION TO STIMULUS
				11-20-01	11:10	P NO REACTION TO STIMULUS
				11-21-01	11:03	P NO REACTION TO STIMULUS
				11-22-01	10:18	P NO REACTION TO STIMULUS
				11-23-01	10:17	P NO REACTION TO STIMULUS
				11-24-01	10:43	P NO REACTION TO STIMULUS
				11-25-01	10:40	P NO REACTION TO STIMULUS
				11-26-01	11:25	P NO REACTION TO STIMULUS
				11-27-01	11:41	P NO REACTION TO STIMULUS
				11-28-01	10:45	P NO REACTION TO STIMULUS
				11-29-01	11:00	P NO REACTION TO STIMULUS
				11-30-01	10:55	P NO REACTION TO STIMULUS
				12-01-01	11:17	P NO REACTION TO STIMULUS
				12-02-01	11:23	P NO REACTION TO STIMULUS
				12-03-01	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-04-01	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:15	P NO REACTION TO STIMULUS
				12-06-01	11:00	P NO REACTION TO STIMULUS
				12-12-01	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769	F	2500 PPM	BEHAVIOR/CNS	12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	NO REACTION TO STIMULUS
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	NO REACTION TO STIMULUS
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	NO REACTION TO STIMULUS
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS
				12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	NO REACTION TO STIMULUS
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769	F	2500 PPM	BEHAVIOR/CNS	01-10-02	11:50	P	NO REACTION TO STIMULUS
74792	F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-09-01	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:45	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	NO REACTION TO STIMULUS
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-20-01	11:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			09-21-01	11:37	P	NO REACTION TO STIMULUS
			09-22-01	11:20	P	NO REACTION TO STIMULUS
			09-23-01	10:54	P	NO REACTION TO STIMULUS
			09-24-01	11:37	P	NO REACTION TO STIMULUS
			09-25-01	12:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-26-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			09-27-01	11:42	P	NO REACTION TO STIMULUS
			09-28-01	11:30	P	NO REACTION TO STIMULUS
			09-29-01	11:01	P	NO REACTION TO STIMULUS
			09-30-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-01-01	11:26	P	NO REACTION TO STIMULUS
			10-02-01	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-03-01	11:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-04-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-05-01	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-06-01	10:54	P	NO REACTION TO STIMULUS
			10-07-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-08-01	14:31	P	NO REACTION TO STIMULUS
			10-09-01	13:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792	F	2500 PPM	BEHAVIOR/CNS	10-11-01	11:45	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-12-01	11:34	P	NO REACTION TO STIMULUS
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-16-01	11:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-17-01	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				10-18-01	11:15	P	NO REACTION TO STIMULUS
				10-19-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-20-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-24-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				10-27-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792	F	2500 PPM	BEHAVIOR/CNS	10-28-01	11:11	P	STIMULUS WAS HEARD
				10-29-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-01-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-02-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-09-01	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-10-01	10:15	P	NO REACTION TO STIMULUS
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792	F	2500 PPM	BEHAVIOR/CNS	11-14-01	11:35	P	STIMULUS WAS HEARD
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	NO REACTION TO STIMULUS
				11-20-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-21-01	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-22-01	10:18	P	NO REACTION TO STIMULUS
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	NO REACTION TO STIMULUS
				11-30-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-01-01	11:17	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792	F	2500 PPM	BEHAVIOR/CNS	12-02-01	11:23	P NO REACTION TO STIMULUS
				12-03-01	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P NO REACTION TO STIMULUS
				12-05-01	11:15	P NO REACTION TO STIMULUS
				12-12-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-14-01	11:05	P NO REACTION TO STIMULUS
				12-15-01	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-16-01	10:40	P NO REACTION TO STIMULUS
				12-17-01	11:07	P NO REACTION TO STIMULUS
				12-18-01	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-19-01	11:00	P NO REACTION TO STIMULUS
				12-20-01	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	12:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792	F	2500 PPM	BEHAVIOR/CNS	12-27-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-28-01	11:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-09-02	11:40	P	NO REACTION TO STIMULUS
74832	F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	NO REACTION TO STIMULUS
				09-05-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-06-01	11:47	P	NO REACTION TO STIMULUS
				09-07-01	11:38	P	NO REACTION TO STIMULUS
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	NO REACTION TO STIMULUS
				09-11-01	11:47	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BEHAVIOR/CNS	09-12-01	11:45	P	NO REACTION TO STIMULUS
				09-14-01	11:35	P	NO REACTION TO STIMULUS
				09-13-01	11:30	P	NO REACTION TO STIMULUS
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	NO REACTION TO STIMULUS
				09-17-01	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P	NO REACTION TO STIMULUS
				09-19-01	11:45	P	NO REACTION TO STIMULUS
				09-20-01	11:27	P	NO REACTION TO STIMULUS
				09-21-01	11:37	P	NO REACTION TO STIMULUS
				09-22-01	11:20	P	NO REACTION TO STIMULUS
				09-23-01	10:54	P	NO REACTION TO STIMULUS
				09-24-01	11:37	P	NO REACTION TO STIMULUS
				09-25-01	12:56	P	NO REACTION TO STIMULUS
				09-26-01	11:33	P	NO REACTION TO STIMULUS
				09-27-01	11:42	P	NO REACTION TO STIMULUS
				09-28-01	11:30	P	NO REACTION TO STIMULUS
				09-29-01	11:01	P	NO REACTION TO STIMULUS
				09-30-01	11:00	P	NO REACTION TO STIMULUS
				10-01-01	11:26	P	NO REACTION TO STIMULUS
				10-02-01	11:52	P	NO REACTION TO STIMULUS
				10-03-01	11:26	P	NO REACTION TO STIMULUS
				10-04-01	11:20	P	NO REACTION TO STIMULUS
				10-05-01	11:19	P	NO REACTION TO STIMULUS
				10-06-01	10:54	P	NO REACTION TO STIMULUS
				10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	NO REACTION TO STIMULUS
				10-09-01	13:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BEHAVIOR/CNS	10-10-01	12:00	P	NO REACTION TO STIMULUS
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	NO REACTION TO STIMULUS
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	NO REACTION TO STIMULUS
				10-16-01	11:58	P	NO REACTION TO STIMULUS
				10-17-01	11:13	P	NO REACTION TO STIMULUS
				10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:20	P	NO REACTION TO STIMULUS
				10-20-01	10:47	P	NO REACTION TO STIMULUS
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P	NO REACTION TO STIMULUS
				10-23-01	11:15	P	NO REACTION TO STIMULUS
				10-24-01	11:20	P	NO REACTION TO STIMULUS
				10-25-01	11:15	P	NO REACTION TO STIMULUS
				10-26-01	11:00	P	NO REACTION TO STIMULUS
				10-27-01	11:04	P	NO REACTION TO STIMULUS
				10-28-01	11:11	P	NO REACTION TO STIMULUS
				10-29-01	11:20	P	NO REACTION TO STIMULUS
				10-30-01	11:15	P	NO REACTION TO STIMULUS
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-03-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BEHAVIOR/CNS	11-04-01	10:55	P	NO REACTION TO STIMULUS
				11-05-01	11:15	P	NO REACTION TO STIMULUS
				11-06-01	11:15	P	NO REACTION TO STIMULUS
				11-07-01	11:10	P	NO REACTION TO STIMULUS
				11-08-01	11:33	P	NO REACTION TO STIMULUS
				11-09-01	10:46	P	NO REACTION TO STIMULUS
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	NO REACTION TO STIMULUS
				11-12-01	10:55	P	NO REACTION TO STIMULUS
				11-13-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-14-01	11:35	P	NO REACTION TO STIMULUS
				11-15-01	11:04	P	NO REACTION TO STIMULUS
				11-16-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-17-01	11:30	P	NO REACTION TO STIMULUS
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	NO REACTION TO STIMULUS
				11-20-01	11:10	P	NO REACTION TO STIMULUS
				11-21-01	11:03	P	NO REACTION TO STIMULUS
				11-22-01	10:18	P	NO REACTION TO STIMULUS
				11-23-01	10:17	P	NO REACTION TO STIMULUS
				11-24-01	10:43	P	NO REACTION TO STIMULUS
				11-25-01	10:40	P	NO REACTION TO STIMULUS
				11-26-01	11:25	P	NO REACTION TO STIMULUS
				11-27-01	11:41	P	NO REACTION TO STIMULUS
				11-28-01	10:45	P	NO REACTION TO STIMULUS
				11-29-01	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BEHAVIOR/CNS	11-30-01	10:55	P	NO REACTION TO STIMULUS
				12-01-01	11:17	P	NO REACTION TO STIMULUS
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	NO REACTION TO STIMULUS
				12-04-01	11:10	P	NO REACTION TO STIMULUS
				12-11-01	12:05	P	NO REACTION TO STIMULUS
				12-12-01	11:00	P	NO REACTION TO STIMULUS
				12-13-01	11:15	P	NO REACTION TO STIMULUS
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	NO REACTION TO STIMULUS
				12-16-01	10:40	P	NO REACTION TO STIMULUS
				12-17-01	11:07	P	NO REACTION TO STIMULUS
				12-18-01	11:20	P	NO REACTION TO STIMULUS
				12-19-01	11:00	P	NO REACTION TO STIMULUS
				12-20-01	11:08	P	NO REACTION TO STIMULUS
				12-21-01	11:10	P	NO REACTION TO STIMULUS
				12-22-01	11:00	P	NO REACTION TO STIMULUS
				12-23-01	10:30	P	NO REACTION TO STIMULUS
				12-24-01	10:56	P	NO REACTION TO STIMULUS
				12-25-01	12:04	P	NO REACTION TO STIMULUS
				12-26-01	11:05	P	NO REACTION TO STIMULUS
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	NO REACTION TO STIMULUS
				12-30-01	10:45	P	NO REACTION TO STIMULUS
				12-31-01	10:57	P	NO REACTION TO STIMULUS
				01-01-02	11:55	P	NO REACTION TO STIMULUS
				01-02-02	11:18	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832	F	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
74870	F	2500 PPM	BEHAVIOR/CNS	09-04-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-05-01	11:33	P	NO REACTION TO STIMULUS
				09-06-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-07-01	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-08-01	11:21	P	NO REACTION TO STIMULUS
				09-09-01	10:33	P	NO REACTION TO STIMULUS
				09-10-01	11:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-11-01	11:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-12-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-14-01	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				09-13-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-15-01	10:57	P	NO REACTION TO STIMULUS
				09-16-01	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74870	F	2500 PPM	BEHAVIOR/CNS	09-17-01	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-18-01	11:45	P NO REACTION TO STIMULUS
				09-19-01	11:45	P NO REACTION TO STIMULUS
				09-20-01	11:27	P NO REACTION TO STIMULUS
				09-21-01	11:37	P NO REACTION TO STIMULUS
				09-22-01	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-23-01	10:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-24-01	11:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-25-01	12:56	P NO REACTION TO STIMULUS
				09-26-01	11:33	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-27-01	11:42	P NO REACTION TO STIMULUS
				09-28-01	11:30	P NO REACTION TO STIMULUS
				09-29-01	11:01	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				09-30-01	11:00	P NO REACTION TO STIMULUS
				10-01-01	11:26	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-02-01	11:52	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-03-01	11:26	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-04-01	11:20	P NO REACTION TO STIMULUS
				10-05-01	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-06-01	10:54	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74870	F	2500 PPM	BEHAVIOR/CNS	10-07-01	10:47	P	NO REACTION TO STIMULUS
				10-08-01	14:31	P	NO REACTION TO STIMULUS
				10-09-01	13:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-10-01	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-11-01	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-12-01	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-13-01	10:50	P	NO REACTION TO STIMULUS
				10-14-01	10:50	P	NO REACTION TO STIMULUS
				10-15-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-16-01	11:58	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-17-01	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-18-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-19-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-20-01	10:47	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-21-01	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-22-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-23-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74870	F	2500 PPM	BEHAVIOR/CNS	10-24-01	11:20	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				10-25-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-26-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-27-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-28-01	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-29-01	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-30-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				10-31-01	11:55	P	NO REACTION TO STIMULUS
				11-01-01	10:40	P	NO REACTION TO STIMULUS
				11-02-01	10:37	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-04-01	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-05-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-06-01	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-07-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-08-01	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74870	F	2500 PPM	BEHAVIOR/CNS	11-09-01	10:46	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-10-01	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-11-01	11:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-12-01	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-13-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-14-01	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-15-01	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-16-01	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-17-01	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-18-01	11:34	P	NO REACTION TO STIMULUS
				11-19-01	10:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-20-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-21-01	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-22-01	10:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-23-01	10:17	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74870	F	2500 PPM	BEHAVIOR/CNS	11-24-01	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-25-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-26-01	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-27-01	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				11-28-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-29-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				11-30-01	10:55	P	NO REACTION TO STIMULUS
				12-01-01	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-02-01	11:23	P	NO REACTION TO STIMULUS
				12-03-01	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-04-01	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-05-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-12-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-13-01	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-14-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-15-01	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74870	F	2500 PPM	BEHAVIOR/CNS	12-16-01	10:40	P	STIMULUS WAS HEARD
				12-17-01	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-18-01	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-19-01	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				12-20-01	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-21-01	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-22-01	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-23-01	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-24-01	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-25-01	12:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-26-01	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-27-01	11:20	P	NO REACTION TO STIMULUS
				12-28-01	11:16	P	NO REACTION TO STIMULUS
				12-29-01	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-30-01	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				12-31-01	10:57	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 130 (F0 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 09-04-01 TO 01-14-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74870	F	2500 PPM	BEHAVIOR/CNS	01-01-02	11:55	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PCRDv4.05  
12/11/2002

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**FINAL REPORT**

Volume 3 of 10  
(Individual Tables 131-159)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 131 - 159**

GROUP 1:		0 PPM				DAYS PREGNANCY			
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	PRE-COITUS	STATUS	DISPOSITION		
74737	74602	11/13/01			2	G	D DELIVERED		
74740	74603	11/13/01			1	G	D DELIVERED		
74745	74610	11/13/01			5	NG	D FAILED TO DELIVER		
74749	74614	11/13/01			B	NG	D FAILED TO DELIVER		
74756	74616	11/13/01			B	NG	D FAILED TO DELIVER		
74757	74620	11/13/01			2	G	D DELIVERED		
74759	74627	11/13/01			2	G	D DELIVERED		
74764	74630	11/13/01			2	G	D DELIVERED		
74767	74632	11/13/01			1	G	D DELIVERED		
74772	74633	11/13/01			7	G	D DELIVERED		
74773	74636	11/13/01			1	G	D DELIVERED		
74774	74644	11/13/01			4	G	D DELIVERED		
74779	74645	11/13/01			1	NG	D FAILED TO DELIVER		
74789	74648	11/13/01			7	G	D DELIVERED		
74794	74656	11/13/01			3	NG	D FAILED TO DELIVER		
74804	74660	11/13/01			4	G	D DELIVERED		
74808	74664	11/13/01			2	G	D DELIVERED		
74810	74665	11/13/01			2	G	D DELIVERED		
74815	74669	11/13/01			B	NG	D FAILED TO DELIVER		
74826	74677	11/13/01			4	G	D DELIVERED		
74828	74681	11/13/01			1	NG	D FAILED TO DELIVER		
74829	74682	11/13/01			1	G	D DELIVERED		
74840	74686	11/13/01			4	G	D DELIVERED		
74841	74696	11/13/01			2	G	D DELIVERED		
74842	74698	11/13/01			B	NG	D FAILED TO DELIVER		

B = NO EVIDENCE OF MATING, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 131 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 1:		0 PPM				DAYS PREGNANCY			
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	PRE-COITUS	STATUS	DISPOSITION		
74844	74700	11/13/01			5	G	D	DELIVERED	
74845	74701	11/13/01			4	G	D	DELIVERED	
74854	74707	11/13/01			4	G	D	DELIVERED	
74864	74711	11/13/01			1	G	D	DELIVERED	
74867	74724	11/13/01			1	G	D	DELIVERED	

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D = SELECTED TO DELIVER, G = GRAVID

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GROUP 2:		500 PPM							
FEMALE	FIRST		SECOND		DAYS	PREGNANCY			
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS		DISPOSITION	
74742	74601	11/13/01			2	G	D	DELIVERED	
74746	74604	11/13/01			2	G	D	DELIVERED	
74753	74605	11/13/01			2	G	D	DELIVERED	
74761	74609	11/13/01			4	G	D	DELIVERED	
74762	74612	11/13/01			1	G	D	DELIVERED	
74765	74613	11/13/01			3	G	D	DELIVERED	
74782	74621	11/13/01			1	G	D	DELIVERED	
74785	74625	11/13/01			2	G	D	DELIVERED	
74790	74626	11/13/01			3	G	D	DELIVERED	
74796	74634	11/13/01			2	G	D	DELIVERED	
74797	74641	11/13/01			3	G	D	DELIVERED	
74798	74642	11/13/01			1	G	D	DELIVERED	
74802	74655	11/13/01			1	G	D	DELIVERED	
74805	74662	11/13/01			1	G	D	DELIVERED	
74809	74666	11/13/01			3	G	D	DELIVERED	
74812	74667	11/13/01			1	G	D	DELIVERED	
74816	74671	11/13/01			B	G	D	DELIVERED	
74819	74673	11/13/01			4	G	D	DELIVERED	
74823	74676	11/13/01			3	G	D	DELIVERED	
74824	74685	11/13/01			4	G	D	DELIVERED	
74835	74689	11/13/01			2	G	D	DELIVERED	
74838	74690	11/13/01			1	G	D	DELIVERED	
74839	74704	11/13/01			2	G	D	DELIVERED	
74846	74708	11/13/01			1	G	D	DELIVERED	
74856	74709	11/13/01			2	G	D	DELIVERED	

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B = NO EVIDENCE OF MATING, D = SELECTED TO DELIVER, G = GRAVID

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 131 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

PAGE 4

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GROUP 2:		500 PPM					
FEMALE	FIRST		SECOND	DAYS	PREGNANCY		
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS	DISPOSITION
74859	74712	11/13/01			4	G	D DELIVERED
74861	74715	11/13/01			4	G	D DELIVERED
74863	74722	11/13/01			4	G	D DELIVERED
74869	74729	11/13/01			1	G	D DELIVERED
74873	74733	11/13/01			2	NG	D FAILED TO DELIVER

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D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

GROUP 3:	1000 PPM		SECOND		DAYS PREGNANCY		DISPOSITION	
FEMALE NUMBER	FIRST MALE	DATE	MALE	DATE	PRE-COITUS	STATUS		
74738	74606	11/13/01			3	G	D	DELIVERED
74739	74607	11/13/01			2	G	D	DELIVERED
74743	74608	11/13/01			2	G	D	DELIVERED
74744	74611	11/13/01			7	G	D	DELIVERED
74748	74615	11/13/01			5	G	D	DELIVERED
74752	74617	11/13/01			1	G	D	DELIVERED
74766	74618	11/13/01			3	G	D	DELIVERED
74777	74619	11/13/01			1	NG	D	FAILED TO DELIVER
74780	74622	11/13/01			3	G	D	DELIVERED
74791	74638	11/13/01			3	G	D	DELIVERED
74793	74639	11/13/01			1	G	D	DELIVERED
74795	74650	11/13/01			3	G	D	DELIVERED
74799	74661	11/13/01			4	G	D	DELIVERED
74801	74668	11/13/01			2	G	D	DELIVERED
74806	74670	11/13/01			1	G	D	DELIVERED
74818	74674	11/13/01			B	NG	D	FAILED TO DELIVER
74820	74675	11/13/01			1	G	D	DELIVERED
74821	74679	11/13/01			4	G	D	DELIVERED
74830	74683	11/13/01			B	G	D	DELIVERED
74831	74684	11/13/01			3	G	D	DELIVERED
74834	74691	11/13/01			2	G	D	DELIVERED
74847	74693	11/13/01			1	G	D	DELIVERED
74848	74699	11/13/01			1	G	D	DELIVERED
74849	74706	11/13/01			3	G	D	DELIVERED
74850	74710	11/13/01			2	G	D	DELIVERED

B = NO EVIDENCE OF MATING, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 131 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 3:		1000 PPM					
FEMALE	FIRST		SECOND	DAYS	PREGNANCY		
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS	DISPOSITION
74855	74717	11/13/01			1	G	D DELIVERED
74858	74719	11/13/01			4	G	D DELIVERED
74865	74727	11/13/01			4	G	D FAILED TO DELIVER
74868	74734	11/13/01			5	G	D DELIVERED
74871	74735	11/13/01			2	G	D DELIVERED

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D = SELECTED TO DELIVER, G = GRAVID

GROUP 4:		2500 PPM							
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	DAYS PRE-COITUS	PREGNANCY STATUS	DISPOSITION		
74747	74624	11/13/01			2	G	D	DELIVERED	
74750	74628	11/13/01			2	NG	D	FAILED TO DELIVER	
74751	74629	11/13/01			4	G	D	DELIVERED	
74754	74631	11/13/01			3	G	D	DELIVERED	
74755	74635	11/13/01			3	G	D	DELIVERED	
74768	74640	11/13/01			2	G	D	DELIVERED	
74769	74643	11/13/01			3	G	D	DELIVERED	
74770	74646	11/13/01			4	G	D	DELIVERED	
74781	74647	11/13/01			12	NG	D	FAILED TO DELIVER	
74784	74649	11/13/01			1	G	D	DELIVERED	
74786	74652	11/13/01			3	G	D	DELIVERED	
74787	74653	11/13/01			2	G	D	DELIVERED	
74792	74658	11/13/01			2	G	D	DELIVERED	
74800	74659	11/13/01			5	G	D	FAILED TO DELIVER	
74803	74663	11/13/01			2	G	D	DELIVERED	
74807	74680	11/13/01			2	G	D	DELIVERED	
74811	74688	11/13/01			2	G	D	DELIVERED	
74813	74692	11/13/01			4	G	D	DELIVERED	
74817	74695	11/13/01			5	G	D	DELIVERED	
74822	74697	11/13/01			3	G	D	DELIVERED	
74827	74702	11/13/01			3	G	D	DELIVERED	
74832	74703	11/13/01			1	G	D	DELIVERED	
74833	74705	11/13/01			3	G	D	DELIVERED	
74836	74713	11/13/01			1	G	D	DELIVERED	
74853	74718	11/13/01			2	G	D	DELIVERED	

D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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TABLE 131 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 4:		2500 PPM					
FEMALE	FIRST		SECOND	DAYS	PREGNANCY		
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS	DISPOSITION
74857	74720	11/13/01			2	G	D DELIVERED
74860	74723	11/13/01			4	G	D DELIVERED
74862	74725	11/13/01			4	G	D DELIVERED
74866	74726	11/13/01			1	G	D DELIVERED
74870	74728	11/13/01			2	G	D DELIVERED

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D = SELECTED TO DELIVER, G = GRAVID

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R:12/11/2002

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 132 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 1

FEMALES FROM GROUP 1: 0 PPM																						INDIVIDUAL				
FEMALE	DETERMINATION	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	MEAN LENGTH
NUMBER	DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																					OF ESTROUS				
		B																				CYCLE (DAYS)				
74737	D D E D D D E D D D E D D D P E M D D P E M C																					4.5				
74740	D E D D D E D D D E D D D E D D D E D D D +																					4.0				
74745	D E E D D D D D D E D D D D D D E M D P P E E M M M D D M D D D M D																					6.7				
74749	E D D D E D D D E D D D E D D D E D D D E D D D E D D D E +																					4.0				
74756	D P D D D D D D D D																					A				
74757	D D E M D D D E M D D D D E D D D E D D D P +																					5.0				
74759	D D E D D D E D D D E D D D E D D D E D D D E D D D C																					4.0				
74764	D D E D D D E D D D E D D D E D D D E D D D C																					4.0				
74767	D E M D D D D D D D D D D D D P E D D D C																					16.0				
74772	D E D D D D E D D D E M D D E D D D E D D D E D D D P C																					4.2				
74773	D E D D D E D D D E D D D E D D D E D D D +																					4.0				
74774	E D D D E D D P E D D P E M D D E D D D E D D P C																					4.0				
74779	D M D D D E D D D E D D D E D D D E D D D +																					4.0				
74789	D D D E D D D E D D D E D D D E D D D E D D D E D D C																					4.0				
74794	D E M D D D D D D D D D D D D E D D D D D C																					15.0				
74804	E M D D E M D D E D D D E M D D E D D D E D D D +																					4.0				
74808	D D E D D D P E M D D P E D D D P M D D D P C																					4.7				
74810	D D E D D D E D D D E D D D E D D D E D D D C																					4.0				
74815	D D D D D D D D D M M D M D P E M M M M M M M M M M M M M																					A				
74826	D D D D D D D D E D D D E D D D E D D D E D D C																					4.0				
74828	D D D D P E D D D M D D D E D D D E D D D C																					6.0				
74829	D E D D D E D D D E D D D E D D D E D D D +																					4.0				
74840	E D D D D D D D E D D D D P E D D D P M D D D P C																					6.0				
74841	D D E D D D E D D D E D D D E M D D E D D C																					4.0				
74842	D D D M D D D E M D D D D E D D E D D D M D D D P E M D D P M D D																					6.0				

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 A = UNABLE TO DETERMINE LENGTH OF ESTROUS CYCLE  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 132 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

FEMALES FROM GROUP 1: 0 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	B	
74844	E D D D E D D D E D D D E D D D E D D D E D D D P +	4.0
74845	D D E D D P E D D D E E D D D E D D D E D D D E +	4.3
74854	D D E D D D M D D D E D D D E D D D E D D D +	6.0
74864	D D D D D D P M D D D P M M D D P E M D D C	5.5
74867	D E M D D E D D E D D D E D D D E D D D C	4.0

MEAN 5.3  
 S.D. 2.99  
 N 28

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 132 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 4

FEMALES FROM GROUP 2: 500 PPM

FEMALE NUMBER	DETERMINATION DAY:	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)	
		1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	

FEMALES FROM GROUP 3: 1000 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
B		
74738	D P E M D D D P E D D D E M D D D D E D D D P +	5.3
74739	D D E D D D E M D D E M D D E D D D E D D D +	4.0
74743	D D E D D D E D D D E D D D E D D D E D D D C	4.0
74744	D D D E D D D E D D D E D D D E D D P E D D P E M D D +	4.0
74748	D E M D D E D D D D D D D D D D D D E D D D E +	9.5
74752	D E D D D E D D D E D D D E D D D E D D D C	4.0
74766	D D D E D D D E D D D E D D D E D D D E D D D C	4.0
74777	E D D D D E D D D E M D D D E M D D D E M C	4.8
74780	D D D E D D D E D D D E D D D E D D D E D D D C	4.0
74791	D D D E M D D E D D D E D D D E D D D E D D D +	4.0
74793	D E D D D E D D D E D D D E D D D E D D D +	4.0
74795	E D D D E D D D E D D D P M D D D D E M D D E +	4.5
74799	E D D D E D D D E D D D E D D D E D D D E D D D +	4.0
74801	D D E D D P D D D E D D D E D D D E D D D E +	3.8
74806	D E D D D E D D D E D D D E D D D E D D D +	4.0
74818	D D E D D D E M D D D D E M D D D E M D D D D P D D D D M D M M M M M	5.3
74820	D E D D D E D D D E D D D E D D D E D D D +	4.0
74821	E D D D E D D D E D D D E D D D E D D D E D D D +	4.0
74830	E M D D E D D D E D D D E D D D E D D P E M D D E D D D D D D D D D D	4.0
74831	D D D E D D D E D D D E D D D E D D D E D D P +	4.0
74834	D D E D D D E D D D E D D D E D D D E M D D C	4.0
74847	E D D D D D D D E D D D E D D D E M D D +	5.7
74848	D E D D D E D D D E D D D E D D D E D D D C	4.0
74849	D D D D D D D E D D D E D D D E D D D E D D D +	4.0
74850	P E D D D D E D D D E D D D P D D D E D D P +	4.3

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 132 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 6

FEMALES FROM GROUP 3: 1000 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	B	
74855	D E D D D E D D D E D D D E D D D E D D D C	4.0
74858	E D D P E D D P E D D D E D D D E D D D E D D P +	4.0
74865	E D D D E M D D E D D D E M D D E D D D E D D D C	4.0
74868	E D D D E D D P E D D D E D D D E D D D E D D D D +	4.0
74871	D D E D D D E D D D E D D D E D D D E D D D C	4.0

MEAN 4.4  
 S.D. 1.07  
 N 30

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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FEMALES FROM GROUP 4: 2500 PPM																						INDIVIDUAL				
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	MEAN LENGTH OF ESTROUS CYCLE (DAYS)
B																										
74747	E D D D E D D D E D D D E M D D D E M D D D +																									4.3
74750	D D E D D D E D D D E D D D E D D D E D D P C																									4.0
74751	E D D D E D D D E D D D E D D D E D D D E D D D +																									4.0
74754	D P E D D P M D D D P D E D D E M M D D D D P +																									3.3
74755	D E M D D D E D D D E M D D D M D D P E D D D C																									6.0
74768	D E D D D E D D D E D D D E D D D P M D D D +																									4.0
74769	D D D E D D D E D D D E D D D E D D D E D D D +																									4.0
74770	E D D D E D D D E D D P E D D D E D D D E D D D +																									4.0
74781	D D D D D E D D D E D D D E D D D E D D D E M D D D P P E M D D C																									4.6
74784	D E D D D E D D D E D D D E D D D E D D D C																									4.0
74786	D D D E D D D E D D D E D D D E D D D E D D D +																									4.0
74787	D E D D D E D D D E D D D E D D D E D D D D +																									4.0
74792	D P E D D P E D D D E D D D E D D D E D D P +																									4.0
74800	D E D D D P E D D D P E D D D E M D D D E D D D E C																									4.8
74803	D D E M D D E D D D E D D D E D D D E D D P +																									4.0
74807	D D E D D P E D D D M D D D E D D D E D D D +																									5.3
74811	D D D D D D D D D E M D D E D D D E D D P +																									4.0
74813	E D D D E D D D E D D D E D D D E D D D E D D D +																									4.0
74817	E D D D E D D D E D D D E D D D D D D D D D D P +																									4.0
74822	D D D E D D D E D D D E D D D E D D D E D D P +																									4.0
74827	D D D E D D D E D D D E D D D E D D D E D D P +																									4.0
74832	D E M D D E D D D E P D D E M D D E M D D +																									4.0
74833	E D D D D D D D D D D D D D D P M M D D C																									18.0
74836	D E D D D E D D D E D D D E D D D E D D D +																									4.0
74853	D D P E D D D E M D D D E M D D D E D D D E +																									4.7

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 1

DAY	0	1	4	7	MALE GROUP: 14	0 PPM 21	28	35
ANIMAL								
74602	273.	270.	291.	313.	345.	367.	384.	405.
74603	270.	274.	289.	296.	323.	339.	359.	372.
74610	287.	283.	301.	301.	319.	348.	365.	386.
74614	252.	254.	263.	272.	307.	334.	357.	377.
74616	296.	298.	314.	331.	362.	392.	406.	434.
74620	278.	284.	300.	316.	345.	368.	389.	413.
74627	297.	299.	319.	333.	370.	401.	430.	447.
74630	307.	305.	328.	341.	365.	406.	426.	450.
74632	284.	286.	300.	310.	320.	344.	360.	384.
74633	271.	265.	282.	295.	330.	361.	385.	415.
74636	275.	276.	291.	297.	321.	340.	353.	364.
74644	276.	282.	302.	314.	346.	366.	390.	414.
74645	282.	285.	305.	307.	337.	356.	386.	409.
74648	286.	289.	302.	316.	341.	358.	384.	402.
74656	262.	265.	290.	312.	351.	387.	408.	428.
74660	236.	240.	255.	270.	316.	353.	373.	408.
74664	239.	250.	265.	279.	299.	326.	350.	369.
74665	293.	296.	321.	337.	380.	409.	442.	451.
74669	260.	266.	283.	289.	319.	340.	347.	363.
74677	283.	288.	301.	311.	347.	379.	395.	416.
74681	276.	276.	297.	317.	356.	393.	424.	434.
74682	247.	247.	264.	270.	294.	319.	336.	364.
74686	282.	285.	303.	320.	350.	379.	405.	424.
74696	272.	276.	294.	319.	356.	385.	419.	442.
74698	350.	362.	385.	407.	446.	463.	524.	504.
74700	257.	264.	281.	290.	308.	328.	351.	361.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 2

DAY	0	1	4	7	MALE GROUP: 14	0 PPM 21	28	35
ANIMAL								
74701	252.	256.	270.	276.	290.	322.	332.	357.
74707	299.	304.	322.	338.	364.	384.	413.	437.
74711	254.	259.	270.	288.	311.	339.	370.	398.
74724	294.	294.	312.	325.	363.	374.	413.	441.
MEAN	276.	279.	297.	310.	339.	365.	389.	409.
S.D.	22.9	23.2	25.2	27.7	31.4	31.7	39.1	34.9
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 3

DAY	0	1	4	7	MALE GROUP: 14	500 PPM 21	28	35
ANIMAL								
74601	240.	243.	258.	275.	305.	331.	357.	376.
74604	304.	307.	325.	347.	376.	397.	417.	420.
74605	261.	264.	288.	295.	324.	344.	370.	390.
74609	284.	292.	316.	326.	364.	393.	415.	430.
74612	263.	272.	292.	308.	347.	386.	417.	434.
74613	295.	300.	323.	335.	376.	413.	427.	447.
74621	262.	264.	284.	290.	312.	297.	325.	334.
74625	275.	278.	285.	299.	321.	346.	373.	393.
74626	288.	296.	316.	330.	361.	383.	403.	425.
74634	276.	285.	293.	306.	345.	365.	389.	417.
74641	254.	260.	274.	292.	317.	336.	369.	397.
74642	291.	295.	308.	322.	360.	374.	412.	417.
74655	246.	252.	273.	289.	323.	353.	379.	396.
74662	287.	285.	293.	308.	319.	337.	345.	354.
74666	254.	258.	270.	279.	300.	333.	344.	369.
74667	301.	301.	317.	326.	359.	392.	434.	459.
74671	240.	245.	256.	266.	307.	330.	354.	368.
74673	320.	328.	344.	362.	394.	417.	447.	467.
74676	283.	279.	291.	309.	352.	379.	403.	415.
74685	279.	281.	296.	303.	332.	353.	379.	393.
74689	273.	277.	294.	310.	337.	359.	376.	372.
74690	269.	273.	282.	299.	320.	350.	363.	377.
74704	265.	264.	280.	282.	306.	322.	345.	365.
74708	267.	271.	286.	298.	319.	349.	375.	394.
74709	268.	276.	286.	296.	310.	327.	341.	353.
74712	292.	295.	319.	328.	354.	383.	418.	435.

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 4

DAY	0	1	4	7	MALE GROUP: 14	500 PPM 21	28	35
ANIMAL								
74715	242.	248.	259.	271.	302.	326.	357.	375.
74722	268.	269.	285.	297.	333.	348.	359.	375.
74729	274.	277.	294.	298.	314.	334.	356.	382.
74733	290.	294.	308.	313.	329.	330.	348.	349.
MEAN	274.	278.	293.	305.	334.	356.	380.	396.
S.D.	19.7	19.7	21.1	22.1	25.2	29.5	32.1	33.7
N	30	30	30	30	30	30	30	30

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	0	1	4	7	MALE GROUP: 14	1000 PPM 21	28	35
ANIMAL								
74606	253.	252.	271.	288.	321.	349.	385.	411.
74607	284.	290.	307.	325.	351.	362.	393.	405.
74608	293.	292.	302.	314.	344.	356.	360.	406.
74611	284.	282.	302.	316.	340.	369.	390.	411.
74615	257.	264.	280.	295.	330.	358.	387.	412.
74617	281.	291.	305.	314.	326.	343.	354.	373.
74618	270.	275.	299.	316.	346.	372.	401.	407.
74619	291.	296.	311.	321.	341.	348.	361.	367.
74622	286.	295.	308.	319.	335.	352.	358.	387.
74638	271.	280.	292.	312.	340.	366.	385.	406.
74639	278.	285.	299.	311.	338.	360.	388.	416.
74650	290.	299.	308.	312.	338.	368.	391.	395.
74661	259.	267.	278.	283.	300.	322.	348.	369.
74668	255.	260.	274.	283.	320.	352.	373.	392.
74670	271.	278.	290.	302.	335.	359.	377.	390.
74674	263.	268.	277.	288.	321.	331.	344.	376.
74675	262.	267.	279.	290.	311.	327.	347.	364.
74679	244.	245.	251.	267.	295.	305.	315.	339.
74683	283.	286.	303.	319.	345.	367.	395.	409.
74684	283.	281.	290.	297.	324.	345.	369.	386.
74691	258.	264.	274.	281.	301.	326.	348.	363.
74693	297.	303.	323.	344.	369.	398.	415.	440.
74699	325.	331.	354.	368.	407.	439.	479.	503.
74706	285.	286.	290.	307.	330.	368.	405.	434.
74710	278.	283.	293.	306.	349.	378.	398.	397.
74717	235.	238.	251.	262.	286.	307.	337.	351.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 6

DAY	0	1	4	7	MALE GROUP: 14	1000 PPM 21	28	35
ANIMAL								
74719	273.	276.	293.	308.	346.	373.	406.	420.
74727	263.	272.	292.	305.	345.	368.	398.	411.
74734	299.	306.	325.	336.	369.	393.	426.	445.
74735	261.	262.	277.	285.	314.	336.	357.	379.
MEAN	274.	279.	293.	306.	334.	357.	380.	399.
S.D.	18.5	19.2	21.1	22.2	24.1	27.1	31.9	32.1
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 7

DAY	0	1	4	7	MALE GROUP: 14	2500 PPM 21	28	35
ANIMAL								
74624	242.	244.	257.	269.	298.	323.	350.	368.
74628	262.	273.	277.	278.	301.	322.	344.	358.
74629	256.	258.	281.	291.	326.	352.	374.	386.
74631	277.	282.	295.	312.	335.	361.	386.	400.
74635	281.	283.	294.	297.	321.	342.	367.	388.
74640	264.	263.	285.	297.	329.	327.	367.	388.
74643	293.	303.	312.	324.	351.	371.	381.	388.
74646	300.	305.	316.	324.	355.	376.	401.	421.
74647	260.	263.	277.	293.	327.	373.	404.	428.
74649	283.	287.	300.	314.	333.	348.	363.	395.
74652	259.	264.	275.	290.	324.	347.	365.	380.
74653	275.	279.	295.	307.	338.	364.	386.	406.
74658	255.	259.	277.	283.	305.	323.	341.	359.
74659	273.	274.	292.	302.	341.	359.	376.	382.
74663	242.	245.	257.	266.	293.	328.	350.	363.
74680	308.	309.	328.	337.	369.	403.	435.	445.
74688	263.	265.	289.	313.	361.	402.	444.	465.
74692	268.	267.	282.	294.	315.	338.	355.	368.
74695	314.	308.	326.	335.	367.	403.	418.	439.
74697	288.	297.	315.	329.	353.	384.	403.	415.
74702	292.	297.	302.	311.	346.	371.	373.	393.
74703	277.	278.	298.	298.	315.	346.	375.	401.
74705	241.	245.	261.	283.	320.	345.	377.	407.
74713	296.	297.	315.	325.	353.	391.	423.	437.
74718	280.	287.	302.	317.	359.	384.	415.	430.
74720	259.	264.	279.	298.	331.	360.	395.	415.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 8

DAY	0	1	4	7	MALE GROUP: 14	2500 PPM 21	28	35
ANIMAL								
74723	277.	280.	301.	316.	347.	375.	398.	422.
74725	249.	250.	262.	276.	317.	347.	381.	390.
74726	293.	294.	314.	325.	354.	364.	381.	407.
74728	287.	288.	300.	319.	344.	383.	412.	440.
MEAN	274.	277.	292.	304.	334.	360.	385.	403.
S.D.	19.5	19.4	19.6	19.4	20.8	24.3	26.5	27.6
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 9

DAY	42	49	56	63	MALE GROUP: 70	0 PPM 77	84	91
ANIMAL								
74602	412.	418.	432.	459.	455.	474.	486.	507.
74603	382.	397.	398.	413.	430.	437.	445.	444.
74610	385.	404.	416.	433.	440.	450.	455.	463.
74614	399.	416.	425.	448.	450.	460.	474.	482.
74616	450.	478.	490.	507.	524.	518.	527.	540.
74620	429.	443.	451.	463.	475.	483.	508.	514.
74627	470.	493.	498.	518.	522.	538.	561.	561.
74630	472.	487.	492.	511.	537.	555.	571.	583.
74632	417.	434.	443.	462.	470.	481.	488.	488.
74633	435.	457.	482.	500.	502.	504.	514.	534.
74636	375.	390.	398.	414.	409.	431.	444.	461.
74644	428.	442.	461.	473.	478.	484.	493.	507.
74645	433.	451.	464.	481.	484.	487.	493.	514.
74648	423.	438.	443.	468.	485.	509.	489.	513.
74656	448.	461.	477.	491.	499.	490.	514.	526.
74660	424.	431.	451.	476.	484.	488.	495.	514.
74664	379.	399.	416.	428.	436.	440.	453.	460.
74665	473.	495.	513.	526.	529.	553.	565.	575.
74669	379.	388.	398.	415.	418.	434.	442.	449.
74677	431.	450.	473.	488.	504.	518.	509.	521.
74681	466.	486.	501.	506.	508.	535.	539.	556.
74682	371.	389.	399.	414.	422.	426.	433.	444.
74686	437.	458.	470.	483.	501.	505.	519.	534.
74696	461.	485.	499.	513.	515.	518.	528.	535.
74698	553.	547.	579.	609.	596.	633.	626.	632.
74700	371.	389.	395.	405.	413.	418.	427.	441.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 10

DAY	42	49	56	63	MALE GROUP: 70	0 PPM 77	84	91
ANIMAL								
74701	364.	384.	356.	390.	276.	372.	394.	374.
74707	456.	467.	491.	500.	516.	515.	526.	535.
74711	420.	448.	440.	468.	482.	497.	515.	526.
74724	458.	469.	487.	515.	521.	529.	544.	561.
MEAN	427.	443.	455.	473.	476.	489.	499.	510.
S.D.	41.5	40.4	46.5	46.5	57.3	51.3	49.7	52.5
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 11

DAY	42	49	56	63	MALE GROUP: 70	500 PPM 77	84	91
ANIMAL								
74601	395.	409.	414.	432.	447.	445.	464.	469.
74604	425.	430.	446.	455.	469.	484.	498.	512.
74605	412.	430.	450.	461.	468.	478.	489.	498.
74609	444.	457.	472.	483.	501.	515.	524.	547.
74612	464.	489.	513.	527.	535.	553.	563.	586.
74613	485.	485.	503.	533.	550.	552.	569.	578.
74621	336.	342.	352.	363.	371.	386.	394.	401.
74625	406.	413.	433.	449.	461.	471.	479.	491.
74626	454.	469.	486.	506.	512.	518.	530.	553.
74634	435.	431.	435.	455.	474.	493.	513.	527.
74641	399.	428.	451.	475.	494.	500.	511.	512.
74642	441.	448.	460.	470.	484.	501.	520.	530.
74655	418.	433.	442.	460.	463.	479.	492.	507.
74662	362.	384.	406.	414.	430.	443.	469.	481.
74666	379.	393.	396.	416.	433.	445.	457.	469.
74667	505.	509.	522.	548.	566.	572.	583.	598.
74671	392.	404.	414.	438.	435.	439.	447.	456.
74673	492.	509.	525.	548.	565.	555.	552.	558.
74676	448.	468.	485.	500.	505.	514.	533.	546.
74685	412.	421.	450.	466.	479.	490.	510.	522.
74689	389.	410.	422.	440.	399.	443.	465.	466.
74690	399.	413.	423.	439.	448.	461.	474.	484.
74704	379.	394.	409.	417.	434.	451.	455.	467.
74708	405.	415.	431.	449.	463.	455.	468.	464.
74709	373.	393.	397.	415.	443.	453.	468.	469.
74712	454.	459.	476.	488.	506.	513.	518.	530.

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 12

DAY	42	49	56	63	MALE GROUP: 70	500 PPM 77	84	91
ANIMAL								
74715	398.	409.	422.	441.	451.	456.	467.	471.
74722	395.	408.	412.	436.	444.	452.	464.	473.
74729	396.	406.	425.	439.	455.	468.	489.	497.
74733	378.	387.	397.	419.	417.	435.	462.	454.
MEAN	416.	428.	442.	459.	470.	481.	494.	504.
S.D.	39.7	38.7	41.2	42.9	46.0	42.6	41.4	45.1
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 13

DAY	42	49	56	63	MALE GROUP: 70	1000 PPM 77	84	91
ANIMAL								
74606	434.	456.	482.	508.	510.	517.	536.	553.
74607	418.	445.	454.	464.	482.	481.	496.	504.
74608	403.	421.	432.	449.	454.	465.	483.	471.
74611	423.	427.	442.	452.	465.	471.	483.	486.
74615	429.	449.	460.	480.	487.	493.	507.	516.
74617	388.	410.	419.	440.	449.	457.	474.	465.
74618	433.	444.	450.	452.	464.	484.	497.	492.
74619	378.	393.	409.	420.	428.	445.	454.	464.
74622	404.	424.	417.	455.	457.	461.	504.	507.
74638	427.	435.	439.	443.	460.	471.	493.	502.
74639	438.	455.	462.	487.	505.	520.	543.	554.
74650	424.	439.	454.	460.	472.	484.	493.	484.
74661	392.	404.	420.	434.	441.	456.	463.	463.
74668	424.	434.	444.	466.	477.	482.	502.	510.
74670	404.	425.	437.	446.	455.	473.	479.	491.
74674	396.	415.	424.	431.	446.	469.	480.	482.
74675	371.	388.	386.	406.	429.	441.	460.	465.
74679	350.	386.	398.	411.	419.	428.	441.	440.
74683	410.	442.	470.	481.	504.	504.	511.	522.
74684	405.	416.	432.	442.	456.	453.	471.	477.
74691	378.	397.	412.	422.	435.	442.	443.	452.
74693	450.	478.	486.	498.	513.	534.	530.	532.
74699	526.	551.	569.	598.	598.	610.	619.	620.
74706	460.	478.	488.	510.	520.	530.	538.	545.
74710	416.	428.	436.	454.	454.	467.	475.	490.
74717	368.	387.	397.	415.	424.	425.	431.	433.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 14

DAY	42	49	56	63	MALE GROUP: 70	1000 PPM 77	84	91
ANIMAL								
74719	444.	457.	471.	489.	502.	484.	515.	533.
74727	426.	449.	462.	477.	488.	491.	498.	503.
74734	463.	476.	492.	487.	499.	502.	517.	527.
74735	391.	402.	417.	437.	445.	436.	446.	463.
MEAN	416.	434.	445.	460.	471.	479.	493.	498.
S.D.	34.5	34.7	36.7	38.4	37.4	37.8	38.0	39.4
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 15

DAY	42	49	56	63	MALE GROUP: 70	2500 PPM 77	84	91
ANIMAL								
74624	380.	390.	406.	406.	423.	436.	446.	450.
74628	358.	371.	394.	408.	411.	429.	442.	438.
74629	400.	417.	423.	434.	441.	449.	464.	478.
74631	406.	423.	437.	453.	457.	468.	471.	483.
74635	405.	433.	434.	452.	465.	484.	495.	512.
74640	410.	428.	437.	457.	468.	470.	493.	491.
74643	405.	441.	465.	488.	495.	500.	506.	503.
74646	449.	479.	502.	529.	548.	569.	589.	593.
74647	450.	475.	501.	517.	524.	538.	559.	567.
74649	411.	426.	444.	451.	462.	486.	502.	513.
74652	408.	427.	437.	449.	468.	472.	483.	498.
74653	417.	435.	444.	450.	458.	465.	479.	492.
74658	379.	396.	407.	408.	416.	433.	442.	457.
74659	405.	413.	426.	438.	449.	470.	474.	476.
74663	380.	388.	403.	410.	417.	417.	429.	427.
74680	478.	483.	494.	512.	531.	529.	537.	548.
74688	480.	503.	524.	539.	552.	557.	576.	589.
74692	381.	401.	421.	424.	422.	436.	443.	456.
74695	469.	495.	523.	542.	552.	557.	563.	575.
74697	425.	440.	449.	466.	478.	489.	489.	497.
74702	414.	418.	442.	444.	450.	458.	455.	470.
74703	416.	438.	450.	454.	470.	481.	494.	499.
74705	426.	431.	457.	469.	460.	485.	501.	511.
74713	470.	492.	514.	524.	537.	555.	567.	584.
74718	455.	465.	482.	504.	506.	528.	540.	550.
74720	438.	453.	470.	487.	503.	511.	521.	535.

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	MALE GROUP: 70	2500 PPM 77	84	91
ANIMAL								
74723	446.	467.	470.	491.	507.	520.	529.	537.
74725	420.	431.	445.	455.	467.	474.	497.	503.
74726	419.	428.	432.	473.	481.	492.	522.	534.
74728	457.	487.	512.	524.	549.	575.	579.	600.
MEAN	422.	439.	455.	469.	479.	491.	503.	512.
S.D.	31.7	34.4	37.1	40.8	43.6	44.3	45.5	47.8
N	30	30	30	30	30	30	30	30

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 SPONSOR:ACC

TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	98	105	112	119	MALE GROUP: 126	0 PPM 133	
ANIMAL							
74602	506.	494.	515.	518.	523.	SCHEDULED EUTH DAY	128
74603	447.	455.	459.	468.	461.	SCHEDULED EUTH DAY	128
74610	465.	483.	494.	500.	492.	499.	SCHEDULED EUTH DAY 133
74614	496.	504.	517.	520.	516.	515.	SCHEDULED EUTH DAY 133
74616	544.	541.	559.	569.	555.	SCHEDULED EUTH DAY	132
74620	509.	526.	540.	547.	544.	550.	SCHEDULED EUTH DAY 133
74627	570.	584.	605.	616.	615.	SCHEDULED EUTH DAY	129
74630	574.	578.	587.	592.	598.	594.	SCHEDULED EUTH DAY 133
74632	496.	504.	494.	503.	500.	SCHEDULED EUTH DAY	132
74633	543.	541.	545.	550.	551.	551.	SCHEDULED EUTH DAY 133
74636	467.	459.	466.	468.	479.	SCHEDULED EUTH DAY	129
74644	518.	518.	529.	534.	534.	SCHEDULED EUTH DAY	128
74645	522.	525.	535.	548.	550.	SCHEDULED EUTH DAY	132
74648	531.	544.	566.	578.	566.	SCHEDULED EUTH DAY	132
74656	529.	534.	549.	556.	561.	SCHEDULED EUTH DAY	129
74660	519.	531.	540.	550.	549.	555.	SCHEDULED EUTH DAY 133
74664	457.	428.	404.	431.	426.	SCHEDULED EUTH DAY	128
74665	571.	569.	576.	585.	579.	SCHEDULED EUTH DAY	129
74669	458.	464.	472.	489.	476.	SCHEDULED EUTH DAY	129
74677	525.	537.	562.	583.	586.	SCHEDULED EUTH DAY	132
74681	561.	568.	573.	582.	578.	SCHEDULED EUTH DAY	128
74682	448.	458.	461.	472.	477.	SCHEDULED EUTH DAY	128
74686	536.	543.	556.	573.	551.	SCHEDULED EUTH DAY	128
74696	537.	551.	567.	569.	572.	SCHEDULED EUTH DAY	132
74698	635.	623.	623.	666.	627.	SCHEDULED EUTH DAY	129
74700	437.	439.	445.	456.	460.	SCHEDULED EUTH DAY	128

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	98	105	112	119	MALE GROUP: 126	0 PPM 133
ANIMAL						
74701	398.	378.	418.	437.	443.	SCHEDULED EUTH DAY 129
74707	541.	555.	562.	570.	573.	SCHEDULED EUTH DAY 132
74711	527.	533.	532.	542.	547.	SCHEDULED EUTH DAY 132
74724	553.	565.	568.	561.	570.	564. SCHEDULED EUTH DAY 133
MEAN	514.	518.	527.	538.	535.	547.
S.D.	50.1	53.3	54.3	54.8	51.7	31.4
N	30	30	30	30	30	7

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	98	105	112	119	MALE GROUP: 126	500 PPM 133	
ANIMAL							
74601	469.	482.	483.	481.	479.	SCHEDULED EUTH DAY	128
74604	508.	517.	530.	540.	549.	550. SCHEDULED EUTH DAY	133
74605	505.	512.	525.	537.	533.	534. SCHEDULED EUTH DAY	133
74609	549.	550.	559.	568.	559.	SCHEDULED EUTH DAY	132
74612	593.	596.	610.	616.	619.	SCHEDULED EUTH DAY	129
74613	597.	592.	597.	600.	611.	SCHEDULED EUTH DAY	132
74621	393.	394.	410.	407.	410.	SCHEDULED EUTH DAY	128
74625	485.	497.	508.	513.	523.	SCHEDULED EUTH DAY	129
74626	539.	557.	561.	567.	570.	SCHEDULED EUTH DAY	129
74634	525.	536.	546.	546.	554.	SCHEDULED EUTH DAY	128
74641	520.	538.	544.	547.	556.	SCHEDULED EUTH DAY	129
74642	522.	531.	539.	538.	550.	565. SCHEDULED EUTH DAY	133
74655	500.	510.	525.	534.	520.	SCHEDULED EUTH DAY	132
74662	467.	485.	489.	501.	500.	SCHEDULED EUTH DAY	132
74666	467.	471.	479.	487.	489.	SCHEDULED EUTH DAY	128
74667	574.	599.	613.	628.	620.	SCHEDULED EUTH DAY	128
74671	456.	456.	458.	469.	476.	SCHEDULED EUTH DAY	128
74673	576.	583.	592.	593.	591.	SCHEDULED EUTH DAY	129
74676	550.	567.	569.	580.	575.	SCHEDULED EUTH DAY	132
74685	518.	524.	535.	536.	543.	SCHEDULED EUTH DAY	132
74689	465.	473.	484.	493.	494.	SCHEDULED EUTH DAY	132
74690	475.	481.	510.	516.	508.	SCHEDULED EUTH DAY	128
74704	464.	466.	476.	469.	474.	467. SCHEDULED EUTH DAY	133
74708	483.	493.	496.	495.	493.	500. SCHEDULED EUTH DAY	133
74709	479.	493.	493.	503.	511.	SCHEDULED EUTH DAY	129
74712	525.	532.	530.	539.	550.	SCHEDULED EUTH DAY	129

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 20

DAY	98	105	112	119	MALE GROUP: 126	500 PPM 133	
ANIMAL							
74715	474.	491.	498.	500.	502.	500.	SCHEDULED EUTH DAY 133
74722	467.	482.	491.	495.	497.	511.	SCHEDULED EUTH DAY 133
74729	508.	516.	526.	539.	534.		SCHEDULED EUTH DAY 129
74733	458.	467.	486.	494.	496.	490.	SCHEDULED EUTH DAY 133
MEAN	504.	513.	522.	528.	530.	515.	
S.D.	46.3	47.0	46.5	48.0	47.6	32.7	
N	30	30	30	30	30	8	

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	98	105	112	119	MALE GROUP: 126	1000 PPM 133				
ANIMAL										
74606	556.	556.	568.	575.	575.	584.	SCHEDULED	EUTH DAY	133	
74607	511.	507.	525.	528.	525.		SCHEDULED	EUTH DAY	128	
74608	472.	486.	497.	506.	498.		SCHEDULED	EUTH DAY	132	
74611	498.	508.	524.	511.	521.		SCHEDULED	EUTH DAY	129	
74615	526.	527.	540.	545.	539.		SCHEDULED	EUTH DAY	128	
74617	470.	476.	491.	500.	503.		SCHEDULED	EUTH DAY	132	
74618	500.	511.	529.	533.	523.		SCHEDULED	EUTH DAY	129	
74619	462.	478.	494.	483.	467.	476.	SCHEDULED	EUTH DAY	133	
74622	520.	524.	529.	550.	535.		SCHEDULED	EUTH DAY	129	
74638	495.	506.	526.	529.	515.	515.	SCHEDULED	EUTH DAY	133	
74639	549.	545.	545.	556.	567.		SCHEDULED	EUTH DAY	132	
74650	507.	511.	527.	519.	528.	527.	SCHEDULED	EUTH DAY	133	
74661	470.	485.	490.	500.	508.		SCHEDULED	EUTH DAY	129	
74668	500.	515.	534.	547.	547.	561.	SCHEDULED	EUTH DAY	133	
74670	497.	496.	508.	519.	526.		SCHEDULED	EUTH DAY	129	
74674	497.	496.	503.	505.	498.		SCHEDULED	EUTH DAY	132	
74675	463.	477.	481.	488.	490.		SCHEDULED	EUTH DAY	128	
74679	446.	444.	456.	463.	453.		SCHEDULED	EUTH DAY	128	
74683	545.	540.	558.	565.	568.		SCHEDULED	EUTH DAY	128	
74684	482.	489.	502.	509.	502.		SCHEDULED	EUTH DAY	128	
74691	461.	461.	468.	473.	482.	484.	SCHEDULED	EUTH DAY	133	
74693	544.	550.	572.	579.	588.		SCHEDULED	EUTH DAY	132	
74699	632.	631.	631.	638.	654.	662.	SCHEDULED	EUTH DAY	133	
74706	557.	556.	562.	565.	576.		SCHEDULED	EUTH DAY	132	
74710	492.	480.	448.	479.	488.		SCHEDULED	EUTH DAY	129	
74717	438.	443.	446.	453.	456.		SCHEDULED	EUTH DAY	129	

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 22

DAY	98	105	112	119	MALE GROUP: 126	1000 PPM 133		
ANIMAL								
74719	540.	544.	560.	563.	562.	SCHEDULED EUTH DAY	132	
74727	523.	518.	518.	531.	535.	SCHEDULED EUTH DAY	132	
74734	524.	541.	542.	551.	547.	SCHEDULED EUTH DAY	128	
74735	463.	478.	488.	497.	501.	SCHEDULED EUTH DAY	128	
MEAN	505.	509.	519.	525.	526.	544.		
S.D.	41.1	38.9	40.6	40.0	42.9	64.8		
N	30	30	30	30	30	7		

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TABLE 133 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 23

DAY	98	105	112	119	MALE GROUP: 126	2500 PPM 133	
ANIMAL							
74624	453.	464.	464.	472.	478.	SCHEDULED EUTH DAY	128
74628	454.	466.	481.	482.	488.	SCHEDULED EUTH DAY	132
74629	476.	479.	486.	486.	487.	SCHEDULED EUTH DAY	129
74631	494.	493.	501.	494.	507.	SCHEDULED EUTH DAY	129
74635	511.	521.	530.	537.	533.	538. SCHEDULED EUTH DAY	133
74640	503.	509.	525.	516.	525.	SCHEDULED EUTH DAY	128
74643	523.	530.	548.	546.	538.	SCHEDULED EUTH DAY	132
74646	594.	587.	592.	603.	609.	SCHEDULED EUTH DAY	129
74647	582.	591.	602.	607.	605.	SCHEDULED EUTH DAY	132
74649	524.	536.	554.	552.	553.	542. SCHEDULED EUTH DAY	133
74652	495.	506.	513.	527.	529.	SCHEDULED EUTH DAY	129
74653	492.	487.	497.	507.	517.	SCHEDULED EUTH DAY	132
74658	453.	456.	463.	464.	471.	SCHEDULED EUTH DAY	128
74659	473.	476.	490.	490.	501.	502. SCHEDULED EUTH DAY	133
74663	431.	439.	449.	457.	458.	SCHEDULED EUTH DAY	128
74680	538.	561.	577.	578.	583.	574. SCHEDULED EUTH DAY	133
74688	590.	597.	603.	615.	616.	SCHEDULED EUTH DAY	128
74692	458.	450.	458.	460.	460.	SCHEDULED EUTH DAY	129
74695	578.	600.	613.	634.	639.	SCHEDULED EUTH DAY	132
74697	499.	507.	523.	521.	503.	512. SCHEDULED EUTH DAY	133
74702	492.	486.	488.	496.	498.	SCHEDULED EUTH DAY	129
74703	496.	506.	531.	537.	540.	516. SCHEDULED EUTH DAY	133
74705	512.	496.	492.	521.	513.	517. SCHEDULED EUTH DAY	133
74713	578.	599.	612.	618.	611.	SCHEDULED EUTH DAY	128
74718	552.	560.	572.	580.	589.	580. SCHEDULED EUTH DAY	133
74720	539.	546.	555.	557.	565.	SCHEDULED EUTH DAY	129

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TABLE 133 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 24

DAY	98	105	112	119	MALE GROUP: 126	2500 PPM 133	
ANIMAL							
74723	546.	557.	565.	579.	583.	SCHEDULED EUTH DAY	129
74725	484.	491.	504.	511.	520.	SCHEDULED EUTH DAY	132
74726	529.	538.	536.	554.	560.	SCHEDULED EUTH DAY	132
74728	606.	597.	616.	628.	635.	SCHEDULED EUTH DAY	128
MEAN	515.	521.	531.	538.	540.	535.	
S.D.	47.3	49.2	50.8	53.1	52.8	29.0	
N	30	30	30	30	30	8	

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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 1

DAY	FEMALE GROUP:							
	0	1	4	7	14	0 PPM 21	28	35
ANIMAL								
74737	192.	193.	200.	210.	217.	235.	247.	257.
74740	184.	184.	200.	200.	220.	226.	239.	242.
74745	188.	194.	207.	224.	241.	260.	273.	281.
74749	184.	182.	194.	202.	221.	234.	245.	255.
74756	210.	206.	220.	221.	247.	254.	273.	275.
74757	187.	174.	189.	193.	221.	225.	237.	246.
74759	170.	174.	179.	191.	207.	216.	225.	231.
74764	180.	180.	190.	203.	225.	233.	246.	262.
74767	184.	184.	191.	189.	212.	225.	233.	236.
74772	190.	185.	196.	197.	234.	244.	259.	265.
74773	213.	203.	224.	238.	262.	284.	298.	302.
74774	180.	185.	193.	197.	217.	235.	254.	266.
74779	189.	186.	200.	207.	224.	234.	247.	260.
74789	173.	174.	181.	189.	210.	219.	231.	240.
74794	186.	184.	194.	202.	226.	244.	257.	264.
74804	177.	181.	193.	202.	217.	231.	241.	242.
74808	195.	193.	210.	219.	241.	257.	270.	279.
74810	206.	216.	221.	229.	250.	253.	262.	271.
74815	200.	199.	208.	207.	231.	242.	251.	265.
74826	164.	164.	175.	175.	196.	211.	231.	229.
74828	188.	184.	202.	209.	228.	226.	247.	258.
74829	192.	191.	202.	212.	238.	237.	264.	264.
74840	190.	183.	202.	193.	224.	233.	250.	256.
74841	164.	166.	170.	180.	198.	205.	213.	218.
74842	177.	178.	188.	199.	222.	231.	239.	262.
74844	195.	198.	209.	215.	231.	247.	262.	267.

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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 2

DAY	0	1	4	7	FEMALE GROUP: 14	0 PPM 21	28	35
ANIMAL								
74845	191.	194.	208.	220.	243.	252.	272.	286.
74854	197.	197.	206.	217.	232.	250.	260.	278.
74864	198.	207.	217.	228.	244.	248.	270.	282.
74867	198.	199.	207.	208.	232.	241.	254.	261.
MEAN	188.	188.	199.	206.	227.	238.	252.	260.
S.D.	11.9	12.1	13.3	14.7	15.0	16.1	17.5	18.6
N	30	30	30	30	30	30	30	30

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	0	1	4	7	FEMALE GROUP: 14	500 PPM 21	28	35
ANIMAL								
74742	188.	191.	197.	211.	227.	241.	248.	257.
74746	193.	189.	202.	203.	221.	219.	241.	245.
74753	187.	185.	198.	204.	230.	240.	266.	275.
74761	203.	184.	205.	206.	228.	231.	256.	258.
74762	162.	163.	170.	176.	184.	202.	209.	215.
74765	179.	178.	188.	189.	212.	227.	228.	245.
74782	196.	206.	210.	215.	234.	251.	261.	269.
74785	199.	200.	210.	224.	249.	262.	277.	284.
74790	172.	161.	181.	192.	204.	213.	234.	238.
74796	184.	189.	196.	212.	235.	246.	264.	275.
74797	187.	182.	197.	208.	219.	232.	246.	244.
74798	189.	184.	201.	203.	229.	243.	273.	263.
74802	202.	204.	215.	217.	238.	242.	258.	256.
74805	193.	196.	201.	208.	234.	256.	274.	278.
74809	163.	156.	173.	173.	189.	200.	214.	225.
74812	184.	187.	197.	192.	218.	238.	250.	252.
74816	194.	192.	207.	209.	235.	253.	264.	274.
74819	193.	199.	211.	219.	242.	261.	281.	283.
74823	181.	179.	197.	208.	235.	247.	268.	284.
74824	195.	193.	204.	198.	223.	234.	251.	246.
74835	169.	171.	177.	182.	192.	204.	204.	220.
74838	192.	193.	209.	211.	237.	246.	262.	264.
74839	188.	191.	195.	209.	233.	245.	256.	265.
74846	194.	190.	206.	203.	225.	237.	252.	259.
74856	172.	185.	187.	197.	215.	230.	237.	248.
74859	192.	197.	205.	211.	225.	251.	270.	270.

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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 4

DAY	0	1	4	7	FEMALE GROUP: 14	500 PPM 21	28	35
ANIMAL								
74861	176.	175.	188.	192.	217.	233.	246.	257.
74863	190.	196.	206.	214.	230.	250.	269.	276.
74869	183.	187.	192.	196.	217.	234.	243.	242.
74873	210.	211.	222.	214.	245.	262.	273.	279.
MEAN	187.	187.	198.	203.	224.	238.	253.	258.
S.D.	11.4	12.8	12.2	12.4	15.7	16.8	19.9	18.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 5

DAY	0	1	4	7	FEMALE GROUP: 14	1000 PPM 21	28	35
ANIMAL								
74738	190.	194.	198.	211.	227.	224.	243.	242.
74739	185.	185.	198.	202.	223.	229.	239.	255.
74743	177.	181.	192.	203.	223.	238.	248.	258.
74744	166.	161.	172.	180.	194.	204.	213.	223.
74748	187.	185.	199.	202.	222.	241.	250.	250.
74752	194.	195.	204.	210.	232.	245.	264.	263.
74766	189.	180.	195.	199.	221.	224.	236.	242.
74777	198.	199.	213.	219.	246.	266.	277.	280.
74780	191.	182.	200.	205.	217.	241.	255.	265.
74791	171.	165.	179.	184.	204.	202.	207.	237.
74793	193.	199.	203.	206.	230.	243.	255.	259.
74795	200.	210.	211.	221.	226.	258.	268.	269.
74799	187.	190.	203.	214.	229.	243.	245.	261.
74801	197.	196.	209.	216.	237.	251.	265.	267.
74806	177.	172.	184.	187.	208.	216.	233.	241.
74818	198.	202.	211.	218.	239.	251.	267.	277.
74820	181.	183.	195.	198.	215.	227.	240.	243.
74821	197.	195.	196.	208.	215.	233.	253.	262.
74830	178.	179.	192.	196.	202.	220.	240.	235.
74831	200.	192.	213.	233.	248.	256.	274.	286.
74834	187.	197.	202.	211.	228.	244.	254.	264.
74847	179.	180.	186.	188.	211.	218.	235.	243.
74848	185.	191.	200.	206.	228.	243.	251.	263.
74849	159.	156.	170.	178.	194.	202.	227.	239.
74850	188.	179.	200.	203.	221.	229.	232.	248.
74855	210.	217.	227.	234.	241.	254.	264.	239.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	0	1	4	7	FEMALE GROUP: 14	1000 PPM 21	28	35
ANIMAL								
74858	202.	202.	211.	209.	233.	254.	267.	267.
74865	193.	198.	210.	216.	240.	263.	279.	292.
74868	208.	203.	221.	229.	252.	265.	280.	291.
74871	169.	178.	188.	196.	215.	230.	227.	247.
MEAN	188.	188.	199.	206.	224.	237.	250.	257.
S.D.	12.2	14.0	13.1	14.3	14.9	18.2	18.9	17.4
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	0	1	4	7	FEMALE GROUP: 14	2500 PPM 21	28	35
ANIMAL								
74747	198.	186.	197.	204.	218.	233.	246.	258.
74750	166.	167.	177.	184.	205.	212.	226.	235.
74751	175.	176.	188.	193.	208.	217.	232.	244.
74754	200.	197.	207.	208.	229.	236.	253.	259.
74755	196.	191.	202.	198.	227.	232.	248.	253.
74768	186.	186.	198.	209.	226.	240.	250.	259.
74769	189.	185.	206.	207.	227.	258.	267.	278.
74770	203.	198.	219.	228.	245.	253.	279.	291.
74781	195.	195.	205.	205.	222.	243.	253.	264.
74784	186.	187.	198.	198.	216.	225.	242.	245.
74786	182.	184.	194.	199.	223.	232.	245.	256.
74787	168.	171.	179.	183.	199.	211.	223.	231.
74792	205.	211.	214.	223.	243.	246.	256.	262.
74800	186.	191.	198.	201.	212.	213.	235.	240.
74803	175.	176.	185.	190.	214.	225.	234.	252.
74807	166.	176.	185.	194.	220.	235.	247.	260.
74811	196.	195.	208.	211.	227.	247.	258.	272.
74813	187.	188.	200.	207.	227.	238.	251.	253.
74817	184.	181.	193.	193.	224.	232.	233.	258.
74822	205.	200.	217.	222.	238.	247.	266.	280.
74827	204.	196.	216.	224.	239.	247.	261.	278.
74832	195.	196.	204.	197.	222.	226.	246.	247.
74833	190.	189.	201.	202.	215.	236.	246.	258.
74836	184.	186.	194.	194.	216.	235.	245.	253.
74853	205.	202.	219.	225.	248.	254.	273.	278.
74857	181.	187.	197.	200.	229.	232.	254.	274.

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TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	0	1	4	7	FEMALE GROUP: 14	2500 PPM 21	28	35
ANIMAL								
74860	189.	181.	192.	207.	216.	225.	237.	251.
74862	167.	169.	173.	184.	208.	208.	216.	218.
74866	195.	197.	200.	212.	239.	247.	266.	284.
74870	207.	217.	227.	245.	271.	285.	298.	311.
MEAN	189.	189.	200.	205.	225.	236.	250.	260.
S.D.	12.4	11.5	13.0	14.4	14.8	16.1	17.2	19.0
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	0 PPM 77	84	91
ANIMAL								
74737	268.	278.	266.	283.	283.	NA	NA	NA
74740	257.	265.	272.	269.	281.	NA	NA	NA
74745	282.	301.	312.	314.	319.	323.	326.	323.
74749	258.	275.	273.	279.	276.	NA	NA	NA
74756	279.	292.	296.	306.	314.	317.	325.	320.
74757	252.	269.	269.	269.	283.	NA	NA	NA
74759	243.	247.	244.	256.	261.	NA	NA	NA
74764	272.	274.	282.	283.	290.	NA	NA	NA
74767	256.	263.	273.	278.	281.	NA	NA	NA
74772	279.	289.	287.	296.	309.	NA	NA	NA
74773	313.	324.	324.	322.	335.	NA	NA	NA
74774	273.	285.	287.	292.	291.	NA	NA	NA
74779	261.	272.	273.	276.	289.	NA	NA	NA
74789	246.	252.	256.	264.	269.	NA	NA	NA
74794	277.	287.	305.	328.	328.	NA	NA	NA
74804	241.	261.	266.	262.	262.	NA	NA	NA
74808	279.	302.	299.	308.	317.	NA	NA	NA
74810	282.	288.	278.	294.	302.	NA	NA	NA
74815	276.	282.	287.	296.	298.	314.	324.	324.
74826	247.	268.	265.	264.	254.	NA	NA	NA
74828	267.	280.	273.	277.	278.	NA	NA	NA
74829	273.	291.	290.	291.	293.	NA	NA	NA
74840	258.	270.	282.	279.	282.	NA	NA	NA
74841	223.	227.	224.	236.	243.	NA	NA	NA
74842	265.	276.	283.	274.	283.	279.	295.	302.
74844	276.	289.	293.	297.	296.	NA	NA	NA

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	0 PPM 77	84	91
ANIMAL								
74845	293.	307.	308.	324.	329.	NA	NA	NA
74854	283.	294.	291.	297.	302.	NA	NA	NA
74864	282.	300.	298.	305.	310.	NA	NA	NA
74867	274.	286.	278.	280.	291.	NA	NA	NA
MEAN	268.	280.	281.	287.	292.	308.	318.	317.
S.D.	17.8	19.3	20.2	21.3	22.4	19.9	15.0	10.3
N	30	30	30	30	30	4	4	4

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	500 PPM 77	84	91
ANIMAL								
74742	267.	276.	275.	285.	299.	NA	NA	NA
74746	259.	267.	266.	276.	282.	NA	NA	NA
74753	295.	298.	302.	305.	307.	NA	NA	NA
74761	276.	280.	278.	283.	288.	NA	NA	NA
74762	218.	226.	232.	226.	238.	NA	NA	NA
74765	253.	261.	258.	275.	282.	NA	NA	NA
74782	271.	281.	294.	300.	303.	NA	NA	NA
74785	296.	299.	297.	319.	324.	NA	NA	NA
74790	244.	249.	258.	268.	261.	NA	NA	NA
74796	291.	294.	297.	312.	319.	NA	NA	NA
74797	252.	258.	261.	273.	271.	NA	NA	NA
74798	273.	288.	278.	282.	294.	NA	NA	NA
74802	271.	280.	275.	282.	285.	NA	NA	NA
74805	293.	303.	297.	303.	310.	NA	NA	NA
74809	227.	228.	242.	245.	246.	NA	NA	NA
74812	267.	284.	285.	283.	292.	NA	NA	NA
74816	281.	292.	290.	299.	310.	340.	365.	425.
74819	282.	296.	304.	303.	309.	NA	NA	NA
74823	292.	303.	316.	318.	320.	NA	NA	NA
74824	259.	270.	269.	272.	273.	NA	NA	NA
74835	235.	237.	237.	241.	252.	NA	NA	NA
74838	277.	296.	297.	295.	301.	NA	NA	NA
74839	273.	281.	285.	287.	301.	NA	NA	NA
74846	261.	286.	274.	294.	304.	NA	NA	NA
74856	268.	274.	267.	282.	299.	NA	NA	NA
74859	271.	279.	291.	292.	287.	NA	NA	NA

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	500 PPM 77	84	91
ANIMAL								
74861	266.	276.	271.	271.	290.	NA	NA	NA
74863	277.	296.	298.	303.	302.	NA	NA	NA
74869	252.	261.	265.	260.	267.	NA	NA	NA
74873	296.	306.	298.	350.	338.	NA	NA	NA
MEAN	268.	278.	279.	286.	292.	340.	365.	425.
S.D.	19.9	21.5	20.7	24.8	23.3	0.0	0.0	0.0
N	30	30	30	30	30	1	1	1

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	42	49	56	63	FEMALE GROUP: 70	1000 PPM 77	84	91
ANIMAL								
74738	249.	257.	254.	252.	270.	NA	NA	NA
74739	268.	272.	268.	275.	281.	NA	NA	NA
74743	275.	277.	273.	286.	294.	NA	NA	NA
74744	231.	232.	242.	249.	254.	NA	NA	NA
74748	262.	281.	274.	309.	297.	NA	NA	NA
74752	270.	286.	288.	288.	304.	NA	NA	NA
74766	250.	251.	258.	265.	269.	NA	NA	NA
74777	298.	296.	313.	319.	315.	NA	NA	NA
74780	272.	287.	293.	308.	307.	NA	NA	NA
74791	238.	247.	255.	263.	271.	NA	NA	NA
74793	276.	279.	286.	285.	290.	NA	NA	NA
74795	274.	288.	299.	291.	316.	NA	NA	NA
74799	258.	282.	279.	279.	281.	NA	NA	NA
74801	274.	282.	284.	282.	296.	NA	NA	NA
74806	251.	263.	262.	262.	273.	NA	NA	NA
74818	290.	296.	296.	302.	302.	301.	303.	301.
74820	252.	262.	268.	266.	280.	NA	NA	NA
74821	264.	283.	287.	288.	297.	NA	NA	NA
74830	235.	259.	260.	261.	264.	291.	313.	347.
74831	289.	285.	298.	305.	312.	NA	NA	NA
74834	276.	284.	286.	294.	304.	NA	NA	NA
74847	248.	262.	265.	264.	276.	NA	NA	NA
74848	273.	279.	285.	283.	294.	NA	NA	NA
74849	247.	251.	258.	264.	269.	NA	NA	NA
74850	251.	269.	260.	275.	278.	NA	NA	NA
74855	287.	301.	301.	309.	320.	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	1000 PPM 77	84	91
ANIMAL								
74858	272.	285.	281.	284.	297.	NA	NA	NA
74865	291.	306.	315.	322.	324.	NA	NA	NA
74868	300.	314.	317.	329.	328.	NA	NA	NA
74871	259.	270.	258.	271.	283.	NA	NA	NA
MEAN	266.	276.	279.	284.	292.	296.	308.	324.
S.D.	18.5	18.4	19.8	21.2	19.3	7.1	7.1	32.5
N	30	30	30	30	30	2	2	2

NA = NOT APPLICABLE

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:							
	42	49	56	63	70	77	84	91
ANIMAL								
74747	258.	276.	274.	272.	284.	NA	NA	NA
74750	246.	254.	253.	259.	263.	NA	NA	NA
74751	240.	248.	255.	255.	259.	NA	NA	NA
74754	259.	272.	275.	279.	292.	NA	NA	NA
74755	258.	274.	269.	275.	286.	NA	NA	NA
74768	269.	276.	281.	285.	293.	NA	NA	NA
74769	292.	289.	300.	307.	311.	NA	NA	NA
74770	291.	312.	318.	320.	320.	NA	NA	NA
74781	274.	285.	283.	283.	301.	290.	NA	NA
74784	246.	251.	252.	253.	262.	NA	NA	NA
74786	261.	272.	269.	279.	291.	NA	NA	NA
74787	243.	256.	256.	254.	265.	NA	NA	NA
74792	271.	275.	278.	281.	289.	NA	NA	NA
74800	246.	257.	248.	263.	257.	NA	NA	NA
74803	264.	269.	265.	272.	282.	NA	NA	NA
74807	269.	277.	278.	293.	298.	NA	NA	NA
74811	268.	296.	294.	283.	301.	NA	NA	NA
74813	235.	250.	263.	264.	269.	NA	NA	NA
74817	256.	264.	272.	277.	304.	NA	NA	NA
74822	287.	293.	300.	299.	307.	NA	NA	NA
74827	286.	283.	293.	304.	305.	NA	NA	NA
74832	256.	269.	267.	270.	279.	NA	NA	NA
74833	259.	275.	311.	329.	307.	NA	NA	NA
74836	258.	268.	270.	276.	275.	NA	NA	NA
74853	283.	296.	297.	303.	312.	NA	NA	NA
74857	278.	296.	291.	296.	324.	NA	NA	NA

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	42	49	56	63	FEMALE GROUP: 70	2500 PPM 77	84	91
ANIMAL								
74860	255.	264.	273.	273.	275.	NA	NA	NA
74862	236.	236.	250.	253.	255.	NA	NA	NA
74866	296.	306.	305.	322.	324.	NA	NA	NA
74870	325.	328.	328.	340.	341.	NA	NA	NA
MEAN	266.	276.	279.	284.	291.	290.		
S.D.	20.3	20.4	21.0	23.2	22.4	0.0		
N	30	30	30	30	30	1		

NA = NOT APPLICABLE

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:					0 PPM	
	98	105	112	119	126	133	
ANIMAL							
74737	NA	NA	NA	NA	316.	SCHEDULED EUTH DAY	129
74740	NA	NA	NA	NA	288.	SCHEDULED EUTH DAY	129
74745	326.	322.	325.	337.	351.	SCHEDULED EUTH DAY	129
74749	NA	300.	302.	300.	304.	SCHEDULED EUTH DAY	129
74756	326.	324.	335.	332.	347.	SCHEDULED EUTH DAY	129
74757	NA	NA	NA	NA	309.	313. SCHEDULED EUTH DAY	133
74759	NA	NA	NA	NA	277.	SCHEDULED EUTH DAY	128
74764	NA	NA	NA	NA	329.	325. SCHEDULED EUTH DAY	133
74767	NA	NA	NA	NA	312.	SCHEDULED EUTH DAY	128
74772	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74773	NA	NA	NA	NA	354.	365. SCHEDULED EUTH DAY	133
74774	NA	NA	NA	NA	330.	SCHEDULED EUTH DAY	132
74779	307.	317.	315.	318.	323.	326. SCHEDULED EUTH DAY	133
74789	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74794	319.	329.	333.	331.	346.	352. SCHEDULED EUTH DAY	133
74804	NA	NA	NA	NA	324.	296. SCHEDULED EUTH DAY	133
74808	NA	NA	NA	NA	360.	SCHEDULED EUTH DAY	132
74810	NA	NA	NA	NA	328.	SCHEDULED EUTH DAY	129
74815	321.	330.	326.	331.	346.	SCHEDULED EUTH DAY	132
74826	NA	NA	NA	NA	301.	SCHEDULED EUTH DAY	132
74828	295.	298.	304.	294.	309.	SCHEDULED EUTH DAY	129
74829	NA	NA	NA	NA	326.	317. SCHEDULED EUTH DAY	133
74840	NA	NA	NA	NA	320.	SCHEDULED EUTH DAY	128
74841	NA	NA	NA	NA	274.	SCHEDULED EUTH DAY	132
74842	293.	275.	276.	316.	337.	SCHEDULED EUTH DAY	128
74844	NA	NA	NA	NA	313.	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	FEMALE GROUP:				0 PPM	
	98	105	112	119	126	133
ANIMAL						
74845	NA	NA	NA	NA	325.	SCHEDULED EUTH DAY 132
74854	NA	NA	NA	NA	318.	SCHEDULED EUTH DAY 128
74864	NA	NA	NA	NA	322.	SCHEDULED EUTH DAY 132
74867	NA	NA	NA	NA	318.	SCHEDULED EUTH DAY 132
MEAN	312.	312.	315.	320.	322.	328.
S.D.	14.1	19.2	19.8	15.9	21.4	23.5
N	7	8	8	8	28	7

NA = NOT APPLICABLE

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:					500 PPM	
	98	105	112	119	126	133	
ANIMAL							
74742	NA	NA	NA	NA	309.	SCHEDULED EUTH DAY	129
74746	NA	NA	NA	NA	328.	SCHEDULED EUTH DAY	129
74753	NA	NA	NA	NA	342.	SCHEDULED EUTH DAY	129
74761	NA	NA	NA	NA	307.	SCHEDULED EUTH DAY	129
74762	NA	NA	NA	NA	272.	SCHEDULED EUTH DAY	129
74765	NA	NA	NA	NA	309.	SCHEDULED EUTH DAY	132
74782	NA	NA	NA	NA	332.	SCHEDULED EUTH DAY	132
74785	NA	NA	NA	NA	348.	SCHEDULED EUTH DAY	132
74790	NA	NA	NA	NA	348.	SCHEDULED EUTH DAY	129
74796	NA	NA	NA	NA	337.	SCHEDULED EUTH DAY	132
74797	NA	NA	NA	NA	294.	308. SCHEDULED EUTH DAY	133
74798	NA	NA	NA	NA	318.	320. SCHEDULED EUTH DAY	133
74802	NA	NA	NA	NA	320.	SCHEDULED EUTH DAY	132
74805	EUTH IN EXTREMIS DAY		94				
74809	NA	NA	NA	NA	294.	SCHEDULED EUTH DAY	128
74812	NA	NA	NA	NA	330.	328. SCHEDULED EUTH DAY	133
74816	NA	NA	NA	NA	334.	SCHEDULED EUTH DAY	128
74819	NA	NA	NA	NA	336.	SCHEDULED EUTH DAY	128
74823	NA	NA	NA	NA	349.	SCHEDULED EUTH DAY	128
74824	NA	NA	NA	NA	297.	312. SCHEDULED EUTH DAY	133
74835	NA	NA	NA	NA	280.	SCHEDULED EUTH DAY	128
74838	NA	NA	NA	NA	328.	SCHEDULED EUTH DAY	132
74839	NA	NA	NA	NA	322.	SCHEDULED EUTH DAY	128
74846	NA	NA	NA	NA	298.	321. SCHEDULED EUTH DAY	133
74856	NA	NA	NA	NA	324.	SCHEDULED EUTH DAY	129
74859	NA	NA	NA	NA	330.	SCHEDULED EUTH DAY	129

NA = NOT APPLICABLE

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 SPONSOR:ACC

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 20

DAY	FEMALE GROUP:					500 PPM	
	98	105	112	119	126	133	
ANIMAL							
74861	NA	NA	NA	NA	327.	SCHEDULED EUTH DAY	128
74863	NA	NA	NA	NA	316.	333.	SCHEDULED EUTH DAY 133
74869	NA	NA	NA	NA	308.	SCHEDULED EUTH DAY	132
74873	330.	332.	344.	352.	353.	352.	SCHEDULED EUTH DAY 133
MEAN	330.	332.	344.	352.	320.	325.	
S.D.	0.0	0.0	0.0	0.0	20.8	14.7	
N	1	1	1	1	29	7	

NA = NOT APPLICABLE

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:					1000 PPM	
	98	105	112	119	126	133	
ANIMAL							
74738	NA	NA	NA	NA	302.	SCHEDULED EUTH DAY	128
74739	NA	NA	NA	NA	319.	SCHEDULED EUTH DAY	132
74743	NA	NA	NA	NA	329.	SCHEDULED EUTH DAY	132
74744	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74748	NA	NA	NA	NA	321.	335.	SCHEDULED EUTH DAY 133
74752	NA	NA	NA	NA	328.	SCHEDULED EUTH DAY	129
74766	NA	NA	NA	NA	292.	SCHEDULED EUTH DAY	132
74777	360.	356.	342.	353.	375.	SCHEDULED EUTH DAY	129
74780	NA	NA	NA	NA	335.	335.	SCHEDULED EUTH DAY 133
74791	NA	NA	NA	NA	275.	289.	SCHEDULED EUTH DAY 133
74793	NA	NA	NA	NA	330.	SCHEDULED EUTH DAY	129
74795	NA	NA	NA	NA	366.	SCHEDULED EUTH DAY	128
74799	NA	NA	NA	NA	319.	SCHEDULED EUTH DAY	128
74801	NA	NA	NA	NA	323.	SCHEDULED EUTH DAY	128
74806	NA	NA	NA	NA	308.	SCHEDULED EUTH DAY	129
74818	301.	307.	311.	318.	330.	SCHEDULED EUTH DAY	129
74820	NA	NA	NA	NA	297.	SCHEDULED EUTH DAY	132
74821	NA	NA	NA	NA	313.	SCHEDULED EUTH DAY	128
74830	NA	NA	NA	NA	289.	287.	SCHEDULED EUTH DAY 133
74831	NA	NA	NA	NA	362.	SCHEDULED EUTH DAY	129
74834	NA	NA	NA	NA	325.	SCHEDULED EUTH DAY	128
74847	NA	NA	NA	NA	297.	SCHEDULED EUTH DAY	132
74848	NA	NA	NA	NA	314.	323.	SCHEDULED EUTH DAY 133
74849	NA	NA	NA	NA	292.	SCHEDULED EUTH DAY	129
74850	NA	NA	NA	NA	320.	302.	SCHEDULED EUTH DAY 133
74855	NA	NA	NA	NA	340.	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

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DAY	FEMALE GROUP:					
	98	105	112	119	126	1000 PPM 133
ANIMAL						
74858	NA	NA	NA	NA	328.	SCHEDULED EUTH DAY 132
74865	NA	374.	369.	378.	377.	SCHEDULED EUTH DAY 132
74868	NA	NA	NA	NA	365.	SCHEDULED EUTH DAY 128
74871	NA	NA	NA	NA	306.	302. SCHEDULED EUTH DAY 133
MEAN	331.	346.	341.	350.	323.	310.
S.D.	41.7	34.7	29.0	30.1	26.2	20.5
N	2	3	3	3	29	7

NA = NOT APPLICABLE

TABLE 134 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:						SCHEDULED EUTH DAY	129	132	128	133
	98	105	112	119	126	133					
ANIMAL											
74747	NA	NA	NA	NA	326.	SCHEDULED EUTH DAY	129				
74750	288.	296.	298.	293.	312.	SCHEDULED EUTH DAY	132				
74751	NA	NA	NA	NA	291.	SCHEDULED EUTH DAY	129				
74754	NA	NA	NA	NA	292.	SCHEDULED EUTH DAY	128				
74755	NA	NA	NA	NA	308.	320. SCHEDULED EUTH DAY	133				
74768	NA	NA	NA	NA	332.	SCHEDULED EUTH DAY	129				
74769	NA	NA	NA	NA	355.	SCHEDULED EUTH DAY	129				
74770	NA	NA	NA	NA	349.	SCHEDULED EUTH DAY	128				
74781	NA	NA	308.	309.	324.	SCHEDULED EUTH DAY	132				
74784	NA	NA	NA	NA	279.	SCHEDULED EUTH DAY	128				
74786	NA	NA	NA	NA	308.	SCHEDULED EUTH DAY	128				
74787	NA	NA	NA	NA	299.	295. SCHEDULED EUTH DAY	133				
74792	NA	NA	NA	NA	319.	SCHEDULED EUTH DAY	128				
74800	NA	314.	286.	302.	286.	SCHEDULED EUTH DAY	132				
74803	NA	NA	NA	NA	311.	SCHEDULED EUTH DAY	128				
74807	NA	NA	NA	NA	352.	347. SCHEDULED EUTH DAY	133				
74811	NA	NA	NA	NA	332.	SCHEDULED EUTH DAY	132				
74813	NA	NA	NA	NA	295.	299. SCHEDULED EUTH DAY	133				
74817	NA	NA	NA	NA	337.	SCHEDULED EUTH DAY	132				
74822	NA	NA	NA	NA	344.	349. SCHEDULED EUTH DAY	133				
74827	NA	NA	NA	NA	326.	SCHEDULED EUTH DAY	132				
74832	NA	NA	NA	NA	302.	SCHEDULED EUTH DAY	129				
74833	NA	NA	NA	NA	316.	SCHEDULED EUTH DAY	132				
74836	NA	NA	NA	NA	312.	319. SCHEDULED EUTH DAY	133				
74853	NA	NA	NA	NA	329.	SCHEDULED EUTH DAY	129				
74857	NA	NA	NA	NA	362.	SCHEDULED EUTH DAY	128				

NA = NOT APPLICABLE

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TABLE 134 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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DAY	FEMALE GROUP:					2500 PPM	
	98	105	112	119	126	133	
ANIMAL							
74860	NA	NA	NA	NA	313.	318.	SCHEDULED EUTH DAY 133
74862	NA	NA	NA	NA	290.		SCHEDULED EUTH DAY 129
74866	NA	NA	NA	NA	327.	344.	SCHEDULED EUTH DAY 133
74870	NA	NA	NA	NA	354.		SCHEDULED EUTH DAY 129
MEAN	288.	305.	297.	301.	319.	324.	
S.D.	0.0	12.7	11.0	8.0	22.5	21.0	
N	1	2	3	3	30	8	

NA = NOT APPLICABLE

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TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 1

DAY	MALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74602	-3.	21.	22.	32.	22.	17.	21.	7.
74603	4.	15.	7.	27.	16.	20.	13.	10.
74610	-4.	18.	0.	18.	29.	17.	21.	-1.
74614	2.	9.	9.	35.	27.	23.	20.	22.
74616	2.	16.	17.	31.	30.	14.	28.	16.
74620	6.	16.	16.	29.	23.	21.	24.	16.
74627	2.	20.	14.	37.	31.	29.	17.	23.
74630	-2.	23.	13.	24.	41.	20.	24.	22.
74632	2.	14.	10.	10.	24.	16.	24.	33.
74633	-6.	17.	13.	35.	31.	24.	30.	20.
74636	1.	15.	6.	24.	19.	13.	11.	11.
74644	6.	20.	12.	32.	20.	24.	24.	14.
74645	3.	20.	2.	30.	19.	30.	23.	24.
74648	3.	13.	14.	25.	17.	26.	18.	21.
74656	3.	25.	22.	39.	36.	21.	20.	20.
74660	4.	15.	15.	46.	37.	20.	35.	16.
74664	11.	15.	14.	20.	27.	24.	19.	10.
74665	3.	25.	16.	43.	29.	33.	9.	22.
74669	6.	17.	6.	30.	21.	7.	16.	16.
74677	5.	13.	10.	36.	32.	16.	21.	15.
74681	0.	21.	20.	39.	37.	31.	10.	32.
74682	0.	17.	6.	24.	25.	17.	28.	7.
74686	3.	18.	17.	30.	29.	26.	19.	13.
74696	4.	18.	25.	37.	29.	34.	23.	19.
74698	12.	23.	22.	39.	17.	61.	-20.	49.
74700	7.	17.	9.	18.	20.	23.	10.	10.

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TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 2

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	0 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74701	4.	14.	6.	14.	32.	10.	25.	7.
74707	5.	18.	16.	26.	20.	29.	24.	19.
74711	5.	11.	18.	23.	28.	31.	28.	22.
74724	0.	18.	13.	38.	11.	39.	28.	17.
MEAN	3.	17.	13.	30.	26.	24.	20.	18.
S.D.	3.9	3.8	6.2	8.7	7.2	10.2	9.8	9.4
N	30	30	30	30	30	30	30	30

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	MALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74601	3.	15.	17.	30.	26.	26.	19.	19.
74604	3.	18.	22.	29.	21.	20.	3.	5.
74605	3.	24.	7.	29.	20.	26.	20.	22.
74609	8.	24.	10.	38.	29.	22.	15.	14.
74612	9.	20.	16.	39.	39.	31.	17.	30.
74613	5.	23.	12.	41.	37.	14.	20.	38.
74621	2.	20.	6.	22.	-15.	28.	9.	2.
74625	3.	7.	14.	22.	25.	27.	20.	13.
74626	8.	20.	14.	31.	22.	20.	22.	29.
74634	9.	8.	13.	39.	20.	24.	28.	18.
74641	6.	14.	18.	25.	19.	33.	28.	2.
74642	4.	13.	14.	38.	14.	38.	5.	24.
74655	6.	21.	16.	34.	30.	26.	17.	22.
74662	-2.	8.	15.	11.	18.	8.	9.	8.
74666	4.	12.	9.	21.	33.	11.	25.	10.
74667	0.	16.	9.	33.	33.	42.	25.	46.
74671	5.	11.	10.	41.	23.	24.	14.	24.
74673	8.	16.	18.	32.	23.	30.	20.	25.
74676	-4.	12.	18.	43.	27.	24.	12.	33.
74685	2.	15.	7.	29.	21.	26.	14.	19.
74689	4.	17.	16.	27.	22.	17.	-4.	17.
74690	4.	9.	17.	21.	30.	13.	14.	22.
74704	-1.	16.	2.	24.	16.	23.	20.	14.
74708	4.	15.	12.	21.	30.	26.	19.	11.
74709	8.	10.	10.	14.	17.	14.	12.	20.
74712	3.	24.	9.	26.	29.	35.	17.	19.

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TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 4

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74715	6.	11.	12.	31.	24.	31.	18.	23.
74722	1.	16.	12.	36.	15.	11.	16.	20.
74729	3.	17.	4.	16.	20.	22.	26.	14.
74733	4.	14.	5.	16.	1.	18.	1.	29.
MEAN	4.	16.	12.	29.	22.	24.	16.	20.
S.D.	3.2	4.9	4.8	8.7	10.4	8.2	7.8	10.0
N	30	30	30	30	30	30	30	30

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	MALE GROUP: 1000 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74606	-1.	19.	17.	33.	28.	36.	26.	23.
74607	6.	17.	18.	26.	11.	31.	12.	13.
74608	-1.	10.	12.	30.	12.	4.	46.	-3.
74611	-2.	20.	14.	24.	29.	21.	21.	12.
74615	7.	16.	15.	35.	28.	29.	25.	17.
74617	10.	14.	9.	12.	17.	11.	19.	15.
74618	5.	24.	17.	30.	26.	29.	6.	26.
74619	5.	15.	10.	20.	7.	13.	6.	11.
74622	9.	13.	11.	16.	17.	6.	29.	17.
74638	9.	12.	20.	28.	26.	19.	21.	21.
74639	7.	14.	12.	27.	22.	28.	28.	22.
74650	9.	9.	4.	26.	30.	23.	4.	29.
74661	8.	11.	5.	17.	22.	26.	21.	23.
74668	5.	14.	9.	37.	32.	21.	19.	32.
74670	7.	12.	12.	33.	24.	18.	13.	14.
74674	5.	9.	11.	33.	10.	13.	32.	20.
74675	5.	12.	11.	21.	16.	20.	17.	7.
74679	1.	6.	16.	28.	10.	10.	24.	11.
74683	3.	17.	16.	26.	22.	28.	14.	1.
74684	-2.	9.	7.	27.	21.	24.	17.	19.
74691	6.	10.	7.	20.	25.	22.	15.	15.
74693	6.	20.	21.	25.	29.	17.	25.	10.
74699	6.	23.	14.	39.	32.	40.	24.	23.
74706	1.	4.	17.	23.	38.	37.	29.	26.
74710	5.	10.	13.	43.	29.	20.	-1.	19.
74717	3.	13.	11.	24.	21.	30.	14.	17.

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TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	1000 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74719	3.	17.	15.	38.	27.	33.	14.	24.
74727	9.	20.	13.	40.	23.	30.	13.	15.
74734	7.	19.	11.	33.	24.	33.	19.	18.
74735	1.	15.	8.	29.	22.	21.	22.	12.
MEAN	5.	14.	13.	28.	23.	23.	19.	17.
S.D.	3.5	4.8	4.2	7.4	7.5	9.1	9.4	7.7
N	30	30	30	30	30	30	30	30

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	MALE GROUP: 2500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74624	2.	13.	12.	29.	25.	27.	18.	12.
74628	11.	4.	1.	23.	21.	22.	14.	0.
74629	2.	23.	10.	35.	26.	22.	12.	14.
74631	5.	13.	17.	23.	26.	25.	14.	6.
74635	2.	11.	3.	24.	21.	25.	21.	17.
74640	-1.	22.	12.	32.	-2.	40.	21.	22.
74643	10.	9.	12.	27.	20.	10.	7.	17.
74646	5.	11.	8.	31.	21.	25.	20.	28.
74647	3.	14.	16.	34.	46.	31.	24.	22.
74649	4.	13.	14.	19.	15.	15.	32.	16.
74652	5.	11.	15.	34.	23.	18.	15.	28.
74653	4.	16.	12.	31.	26.	22.	20.	11.
74658	4.	18.	6.	22.	18.	18.	18.	20.
74659	1.	18.	10.	39.	18.	17.	6.	23.
74663	3.	12.	9.	27.	35.	22.	13.	17.
74680	1.	19.	9.	32.	34.	32.	10.	33.
74688	2.	24.	24.	48.	41.	42.	21.	15.
74692	-1.	15.	12.	21.	23.	17.	13.	13.
74695	-6.	18.	9.	32.	36.	15.	21.	30.
74697	9.	18.	14.	24.	31.	19.	12.	10.
74702	5.	5.	9.	35.	25.	2.	20.	21.
74703	1.	20.	0.	17.	31.	29.	26.	15.
74705	4.	16.	22.	37.	25.	32.	30.	19.
74713	1.	18.	10.	28.	38.	32.	14.	33.
74718	7.	15.	15.	42.	25.	31.	15.	25.
74720	5.	15.	19.	33.	29.	35.	20.	23.

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TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 8

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	2500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74723	3.	21.	15.	31.	28.	23.	24.	24.
74725	1.	12.	14.	41.	30.	34.	9.	30.
74726	1.	20.	11.	29.	10.	17.	26.	12.
74728	1.	12.	19.	25.	39.	29.	28.	17.
MEAN	3.	15.	12.	30.	26.	24.	18.	19.
S.D.	3.4	4.9	5.5	7.1	9.6	8.8	6.7	7.9
N	30	30	30	30	30	30	30	30

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TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	MALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74602	6.	14.	27.	-4.	19.	12.	21.	-1.
74603	15.	1.	15.	17.	7.	8.	-1.	3.
74610	19.	12.	17.	7.	10.	5.	8.	2.
74614	17.	9.	23.	2.	10.	14.	8.	14.
74616	28.	12.	17.	17.	-6.	9.	13.	4.
74620	14.	8.	12.	12.	8.	25.	6.	-5.
74627	23.	5.	20.	4.	16.	23.	0.	9.
74630	15.	5.	19.	26.	18.	16.	12.	-9.
74632	17.	9.	19.	8.	11.	7.	0.	8.
74633	22.	25.	18.	2.	2.	10.	20.	9.
74636	15.	8.	16.	-5.	22.	13.	17.	6.
74644	14.	19.	12.	5.	6.	9.	14.	11.
74645	18.	13.	17.	3.	3.	6.	21.	8.
74648	15.	5.	25.	17.	24.	-20.	24.	18.
74656	13.	16.	14.	8.	-9.	24.	12.	3.
74660	7.	20.	25.	8.	4.	7.	19.	5.
74664	20.	17.	12.	8.	4.	13.	7.	-3.
74665	22.	18.	13.	3.	24.	12.	10.	-4.
74669	9.	10.	17.	3.	16.	8.	7.	9.
74677	19.	23.	15.	16.	14.	-9.	12.	4.
74681	20.	15.	5.	2.	27.	4.	17.	5.
74682	18.	10.	15.	8.	4.	7.	11.	4.
74686	21.	12.	13.	18.	4.	14.	15.	2.
74696	24.	14.	14.	2.	3.	10.	7.	2.
74698	-6.	32.	30.	-13.	37.	-7.	6.	3.
74700	18.	6.	10.	8.	5.	9.	14.	-4.

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 10

DAY	MALE GROUP: 0 PPM								
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98	
ANIMAL									
74701	20.	-28.	34.	-114.	96.	22.	-20.	24.	
74707	11.	24.	9.	16.	-1.	11.	9.	6.	
74711	28.	-8.	28.	14.	15.	18.	11.	1.	
74724	11.	18.	28.	6.	8.	15.	17.	-8.	
MEAN	16.	11.	18.	3.	13.	10.	11.	4.	
S.D.	6.8	10.9	6.8	23.6	18.5	9.4	8.6	7.1	
N	30	30	30	30	30	30	30	30	

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 11

DAY	MALE GROUP: 500 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74601	14.	5.	18.	15.	-2.	19.	5.	0.
74604	5.	16.	9.	14.	15.	14.	14.	-4.
74605	18.	20.	11.	7.	10.	11.	9.	7.
74609	13.	15.	11.	18.	14.	9.	23.	2.
74612	25.	24.	14.	8.	18.	10.	23.	7.
74613	0.	18.	30.	17.	2.	17.	9.	19.
74621	6.	10.	11.	8.	15.	8.	7.	-8.
74625	7.	20.	16.	12.	10.	8.	12.	-6.
74626	15.	17.	20.	6.	6.	12.	23.	-14.
74634	-4.	4.	20.	19.	19.	20.	14.	-2.
74641	29.	23.	24.	19.	6.	11.	1.	8.
74642	7.	12.	10.	14.	17.	19.	10.	-8.
74655	15.	9.	18.	3.	16.	13.	15.	-7.
74662	22.	22.	8.	16.	13.	26.	12.	-14.
74666	14.	3.	20.	17.	12.	12.	12.	-2.
74667	4.	13.	26.	18.	6.	11.	15.	-24.
74671	12.	10.	24.	-3.	4.	8.	9.	0.
74673	17.	16.	23.	17.	-10.	-3.	6.	18.
74676	20.	17.	15.	5.	9.	19.	13.	4.
74685	9.	29.	16.	13.	11.	20.	12.	-4.
74689	21.	12.	18.	-41.	44.	22.	1.	-1.
74690	14.	10.	16.	9.	13.	13.	10.	-9.
74704	15.	15.	8.	17.	17.	4.	12.	-3.
74708	10.	16.	18.	14.	-8.	13.	-4.	19.
74709	20.	4.	18.	28.	10.	15.	1.	10.
74712	5.	17.	12.	18.	7.	5.	12.	-5.

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 12

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74715	11.	13.	19.	10.	5.	11.	4.	3.
74722	13.	4.	24.	8.	8.	12.	9.	-6.
74729	10.	19.	14.	16.	13.	21.	8.	11.
74733	9.	10.	22.	-2.	18.	27.	-8.	4.
MEAN	13.	14.	17.	11.	11.	14.	10.	0.
S.D.	7.3	6.5	5.7	11.8	9.5	6.6	7.1	9.9
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 13

DAY	MALE GROUP:				1000 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74606	22.	26.	26.	2.	7.	19.	17.	3.
74607	27.	9.	10.	18.	-1.	15.	8.	7.
74608	18.	11.	17.	5.	11.	18.	-12.	1.
74611	4.	15.	10.	13.	6.	12.	3.	12.
74615	20.	11.	20.	7.	6.	14.	9.	10.
74617	22.	9.	21.	9.	8.	17.	-9.	5.
74618	11.	6.	2.	12.	20.	13.	-5.	8.
74619	15.	16.	11.	8.	17.	9.	10.	-2.
74622	20.	-7.	38.	2.	4.	43.	3.	13.
74638	8.	4.	4.	17.	11.	22.	9.	-7.
74639	17.	7.	25.	18.	15.	23.	11.	-5.
74650	15.	15.	6.	12.	12.	9.	-9.	23.
74661	12.	16.	14.	7.	15.	7.	0.	7.
74668	10.	10.	22.	11.	5.	20.	8.	-10.
74670	21.	12.	9.	9.	18.	6.	12.	6.
74674	19.	9.	7.	15.	23.	11.	2.	15.
74675	17.	-2.	20.	23.	12.	19.	5.	-2.
74679	36.	12.	13.	8.	9.	13.	-1.	6.
74683	32.	28.	11.	23.	0.	7.	11.	23.
74684	11.	16.	10.	14.	-3.	18.	6.	5.
74691	19.	15.	10.	13.	7.	1.	9.	9.
74693	28.	8.	12.	15.	21.	-4.	2.	12.
74699	25.	18.	29.	0.	12.	9.	1.	12.
74706	18.	10.	22.	10.	10.	8.	7.	12.
74710	12.	8.	18.	0.	13.	8.	15.	2.
74717	19.	10.	18.	9.	1.	6.	2.	5.

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 14

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74719	13.	14.	18.	13.	-18.	31.	18.	7.
74727	23.	13.	15.	11.	3.	7.	5.	20.
74734	13.	16.	-5.	12.	3.	15.	10.	-3.
74735	11.	15.	20.	8.	-9.	10.	17.	0.
MEAN	18.	12.	15.	11.	8.	14.	5.	6.
S.D.	7.1	6.8	8.7	5.8	8.9	9.0	7.6	8.1
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 15

DAY	MALE GROUP:		2500 PPM		84 TO 91		91 TO 98	
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74624	10.	16.	0.	17.	13.	10.	4.	3.
74628	13.	23.	14.	3.	18.	13.	-4.	16.
74629	17.	6.	11.	7.	8.	15.	14.	-2.
74631	17.	14.	16.	4.	11.	3.	12.	11.
74635	28.	1.	18.	13.	19.	11.	17.	-1.
74640	18.	9.	20.	11.	2.	23.	-2.	12.
74643	36.	24.	23.	7.	5.	6.	-3.	20.
74646	30.	23.	27.	19.	21.	20.	4.	1.
74647	25.	26.	16.	7.	14.	21.	8.	15.
74649	15.	18.	7.	11.	24.	16.	11.	11.
74652	19.	10.	12.	19.	4.	11.	15.	-3.
74653	18.	9.	6.	8.	7.	14.	13.	0.
74658	17.	11.	1.	8.	17.	9.	15.	-4.
74659	8.	13.	12.	11.	21.	4.	2.	-3.
74663	8.	15.	7.	7.	0.	12.	-2.	4.
74680	5.	11.	18.	19.	-2.	8.	11.	-10.
74688	23.	21.	15.	13.	5.	19.	13.	1.
74692	20.	20.	3.	-2.	14.	7.	13.	2.
74695	26.	28.	19.	10.	5.	6.	12.	3.
74697	15.	9.	17.	12.	11.	0.	8.	2.
74702	4.	24.	2.	6.	8.	-3.	15.	22.
74703	22.	12.	4.	16.	11.	13.	5.	-3.
74705	5.	26.	12.	-9.	25.	16.	10.	1.
74713	22.	22.	10.	13.	18.	12.	17.	-6.
74718	10.	17.	22.	2.	22.	12.	10.	2.
74720	15.	17.	17.	16.	8.	10.	14.	4.

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PROJECT NO.:WIL-186013M  
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TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74723	21.	3.	21.	16.	13.	9.	8.	9.
74725	11.	14.	10.	12.	7.	23.	6.	-19.
74726	9.	4.	41.	8.	11.	30.	12.	-5.
74728	30.	25.	12.	25.	26.	4.	21.	6.
MEAN	17.	16.	14.	10.	12.	12.	9.	3.
S.D.	8.1	7.5	8.6	6.9	7.6	7.3	6.4	8.8
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 17

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	0 PPM
ANIMAL							
74602	-12.	21.	3.	5.		SCHEDULED EUTH DAY	128
74603	8.	4.	9.	-7.		SCHEDULED EUTH DAY	128
74610	18.	11.	6.	-8.	7.	SCHEDULED EUTH DAY	133
74614	8.	13.	3.	-4.	-1.	SCHEDULED EUTH DAY	133
74616	-3.	18.	10.	-14.		SCHEDULED EUTH DAY	132
74620	17.	14.	7.	-3.	6.	SCHEDULED EUTH DAY	133
74627	14.	21.	11.	-1.		SCHEDULED EUTH DAY	129
74630	4.	9.	5.	6.	-4.	SCHEDULED EUTH DAY	133
74632	8.	-10.	9.	-3.		SCHEDULED EUTH DAY	132
74633	-2.	4.	5.	1.	0.	SCHEDULED EUTH DAY	133
74636	-8.	7.	2.	11.		SCHEDULED EUTH DAY	129
74644	0.	11.	5.	0.		SCHEDULED EUTH DAY	128
74645	3.	10.	13.	2.		SCHEDULED EUTH DAY	132
74648	13.	22.	12.	-12.		SCHEDULED EUTH DAY	132
74656	5.	15.	7.	5.		SCHEDULED EUTH DAY	129
74660	12.	9.	10.	-1.	6.	SCHEDULED EUTH DAY	133
74664	-29.	-24.	27.	-5.		SCHEDULED EUTH DAY	128
74665	-2.	7.	9.	-6.		SCHEDULED EUTH DAY	129
74669	6.	8.	17.	-13.		SCHEDULED EUTH DAY	129
74677	12.	25.	21.	3.		SCHEDULED EUTH DAY	132
74681	7.	5.	9.	-4.		SCHEDULED EUTH DAY	128
74682	10.	3.	11.	5.		SCHEDULED EUTH DAY	128
74686	7.	13.	17.	-22.		SCHEDULED EUTH DAY	128
74696	14.	16.	2.	3.		SCHEDULED EUTH DAY	132
74698	-12.	0.	43.	-39.		SCHEDULED EUTH DAY	129
74700	2.	6.	11.	4.		SCHEDULED EUTH DAY	128

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TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 18

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	0 PPM
ANIMAL							
74701	-20.	40.	19.	6.		SCHEDULED EUTH DAY	129
74707	14.	7.	8.	3.		SCHEDULED EUTH DAY	132
74711	6.	-1.	10.	5.		SCHEDULED EUTH DAY	132
74724	12.	3.	-7.	9.	-6.	SCHEDULED EUTH DAY	133
MEAN	4.	10.	10.	-2.	1.		
S.D.	11.0	11.3	8.9	10.1	5.2		
N	30	30	30	30	7		

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 19

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	500 PPM
ANIMAL							
74601	13.	1.	-2.	-2.		SCHEDULED EUTH DAY	128
74604	9.	13.	10.	9.	1.	SCHEDULED EUTH DAY	133
74605	7.	13.	12.	-4.	1.	SCHEDULED EUTH DAY	133
74609	1.	9.	9.	-9.		SCHEDULED EUTH DAY	132
74612	3.	14.	6.	3.		SCHEDULED EUTH DAY	129
74613	-5.	5.	3.	11.		SCHEDULED EUTH DAY	132
74621	1.	16.	-3.	3.		SCHEDULED EUTH DAY	128
74625	12.	11.	5.	10.		SCHEDULED EUTH DAY	129
74626	18.	4.	6.	3.		SCHEDULED EUTH DAY	129
74634	11.	10.	0.	8.		SCHEDULED EUTH DAY	128
74641	18.	6.	3.	9.		SCHEDULED EUTH DAY	129
74642	9.	8.	-1.	12.	15.	SCHEDULED EUTH DAY	133
74655	10.	15.	9.	-14.		SCHEDULED EUTH DAY	132
74662	18.	4.	12.	-1.		SCHEDULED EUTH DAY	132
74666	4.	8.	8.	2.		SCHEDULED EUTH DAY	128
74667	25.	14.	15.	-8.		SCHEDULED EUTH DAY	128
74671	0.	2.	11.	7.		SCHEDULED EUTH DAY	128
74673	7.	9.	1.	-2.		SCHEDULED EUTH DAY	129
74676	17.	2.	11.	-5.		SCHEDULED EUTH DAY	132
74685	6.	11.	1.	7.		SCHEDULED EUTH DAY	132
74689	8.	11.	9.	1.		SCHEDULED EUTH DAY	132
74690	6.	29.	6.	-8.		SCHEDULED EUTH DAY	128
74704	2.	10.	-7.	5.	-7.	SCHEDULED EUTH DAY	133
74708	10.	3.	-1.	-2.	7.	SCHEDULED EUTH DAY	133
74709	14.	0.	10.	8.		SCHEDULED EUTH DAY	129
74712	7.	-2.	9.	11.		SCHEDULED EUTH DAY	129

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	500 PPM
ANIMAL							
74715	17.	7.	2.	2.	-2.	SCHEDULED EUTH DAY	133
74722	15.	9.	4.	2.	14.	SCHEDULED EUTH DAY	133
74729	8.	10.	13.	-5.		SCHEDULED EUTH DAY	129
74733	9.	19.	8.	2.	-6.	SCHEDULED EUTH DAY	133
MEAN	9.	9.	6.	2.	3.		
S.D.	6.6	6.3	5.4	6.8	8.4		
N	30	30	30	30	8		

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 21

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	1000 PPM			
ANIMAL										
74606	0.	12.	7.	0.	9.	SCHEDULED	EUTH DAY	133		
74607	-4.	18.	3.	-3.		SCHEDULED	EUTH DAY	128		
74608	14.	11.	9.	-8.		SCHEDULED	EUTH DAY	132		
74611	10.	16.	-13.	10.		SCHEDULED	EUTH DAY	129		
74615	1.	13.	5.	-6.		SCHEDULED	EUTH DAY	128		
74617	6.	15.	9.	3.		SCHEDULED	EUTH DAY	132		
74618	11.	18.	4.	-10.		SCHEDULED	EUTH DAY	129		
74619	16.	16.	-11.	-16.	9.	SCHEDULED	EUTH DAY	133		
74622	4.	5.	21.	-15.		SCHEDULED	EUTH DAY	129		
74638	11.	20.	3.	-14.	0.	SCHEDULED	EUTH DAY	133		
74639	-4.	0.	11.	11.		SCHEDULED	EUTH DAY	132		
74650	4.	16.	-8.	9.	-1.	SCHEDULED	EUTH DAY	133		
74661	15.	5.	10.	8.		SCHEDULED	EUTH DAY	129		
74668	15.	19.	13.	0.	14.	SCHEDULED	EUTH DAY	133		
74670	-1.	12.	11.	7.		SCHEDULED	EUTH DAY	129		
74674	-1.	7.	2.	-7.		SCHEDULED	EUTH DAY	132		
74675	14.	4.	7.	2.		SCHEDULED	EUTH DAY	128		
74679	-2.	12.	7.	-10.		SCHEDULED	EUTH DAY	128		
74683	-5.	18.	7.	3.		SCHEDULED	EUTH DAY	128		
74684	7.	13.	7.	-7.		SCHEDULED	EUTH DAY	128		
74691	0.	7.	5.	9.	2.	SCHEDULED	EUTH DAY	133		
74693	6.	22.	7.	9.		SCHEDULED	EUTH DAY	132		
74699	-1.	0.	7.	16.	8.	SCHEDULED	EUTH DAY	133		
74706	-1.	6.	3.	11.		SCHEDULED	EUTH DAY	132		
74710	-12.	-32.	31.	9.		SCHEDULED	EUTH DAY	129		
74717	5.	3.	7.	3.		SCHEDULED	EUTH DAY	129		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	1000 PPM
ANIMAL						
74719	4.	16.	3.	-1.	SCHEDULED EUTH DAY	132
74727	-5.	0.	13.	4.	SCHEDULED EUTH DAY	132
74734	17.	1.	9.	-4.	SCHEDULED EUTH DAY	128
74735	15.	10.	9.	4.	SCHEDULED EUTH DAY	128
MEAN	5.	9.	7.	1.	6.	
S.D.	7.7	10.2	8.2	8.7	5.6	
N	30	30	30	30	7	

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TABLE 135 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 23

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	2500 PPM
ANIMAL							
74624	11.	0.	8.	6.		SCHEDULED EUTH DAY	128
74628	12.	15.	1.	6.		SCHEDULED EUTH DAY	132
74629	3.	7.	0.	1.		SCHEDULED EUTH DAY	129
74631	-1.	8.	-7.	13.		SCHEDULED EUTH DAY	129
74635	10.	9.	7.	-4.	5.	SCHEDULED EUTH DAY	133
74640	6.	16.	-9.	9.		SCHEDULED EUTH DAY	128
74643	7.	18.	-2.	-8.		SCHEDULED EUTH DAY	132
74646	-7.	5.	11.	6.		SCHEDULED EUTH DAY	129
74647	9.	11.	5.	-2.		SCHEDULED EUTH DAY	132
74649	12.	18.	-2.	1.	-11.	SCHEDULED EUTH DAY	133
74652	11.	7.	14.	2.		SCHEDULED EUTH DAY	129
74653	-5.	10.	10.	10.		SCHEDULED EUTH DAY	132
74658	3.	7.	1.	7.		SCHEDULED EUTH DAY	128
74659	3.	14.	0.	11.	1.	SCHEDULED EUTH DAY	133
74663	8.	10.	8.	1.		SCHEDULED EUTH DAY	128
74680	23.	16.	1.	5.	-9.	SCHEDULED EUTH DAY	133
74688	7.	6.	12.	1.		SCHEDULED EUTH DAY	128
74692	-8.	8.	2.	0.		SCHEDULED EUTH DAY	129
74695	22.	13.	21.	5.		SCHEDULED EUTH DAY	132
74697	8.	16.	-2.	-18.	9.	SCHEDULED EUTH DAY	133
74702	-6.	2.	8.	2.		SCHEDULED EUTH DAY	129
74703	10.	25.	6.	3.	-24.	SCHEDULED EUTH DAY	133
74705	-16.	-4.	29.	-8.	4.	SCHEDULED EUTH DAY	133
74713	21.	13.	6.	-7.		SCHEDULED EUTH DAY	128
74718	8.	12.	8.	9.	-9.	SCHEDULED EUTH DAY	133
74720	7.	9.	2.	8.		SCHEDULED EUTH DAY	129

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TABLE 135 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 2500 PPM 126 TO 133	
ANIMAL						
74723	11.	8.	14.	4.	SCHEDULED EUTH DAY	129
74725	7.	13.	7.	9.	SCHEDULED EUTH DAY	132
74726	9.	-2.	18.	6.	SCHEDULED EUTH DAY	132
74728	-9.	19.	12.	7.	SCHEDULED EUTH DAY	128
MEAN	6.	10.	6.	3.	-4.	
S.D.	9.1	6.4	8.1	6.7	10.9	
N	30	30	30	30	8	

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TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 1

DAY	FEMALE GROUP:							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74737	1.	7.	10.	7.	18.	12.	10.	11.
74740	0.	16.	0.	20.	6.	13.	3.	15.
74745	6.	13.	17.	17.	19.	13.	8.	1.
74749	-2.	12.	8.	19.	13.	11.	10.	3.
74756	-4.	14.	1.	26.	7.	19.	2.	4.
74757	-13.	15.	4.	28.	4.	12.	9.	6.
74759	4.	5.	12.	16.	9.	9.	6.	12.
74764	0.	10.	13.	22.	8.	13.	16.	10.
74767	0.	7.	-2.	23.	13.	8.	3.	20.
74772	-5.	11.	1.	37.	10.	15.	6.	14.
74773	-10.	21.	14.	24.	22.	14.	4.	11.
74774	5.	8.	4.	20.	18.	19.	12.	7.
74779	-3.	14.	7.	17.	10.	13.	13.	1.
74789	1.	7.	8.	21.	9.	12.	9.	6.
74794	-2.	10.	8.	24.	18.	13.	7.	13.
74804	4.	12.	9.	15.	14.	10.	1.	-1.
74808	-2.	17.	9.	22.	16.	13.	9.	0.
74810	10.	5.	8.	21.	3.	9.	9.	11.
74815	-1.	9.	-1.	24.	11.	9.	14.	11.
74826	0.	11.	0.	21.	15.	20.	-2.	18.
74828	-4.	18.	7.	19.	-2.	21.	11.	9.
74829	-1.	11.	10.	26.	-1.	27.	0.	9.
74840	-7.	19.	-9.	31.	9.	17.	6.	2.
74841	2.	4.	10.	18.	7.	8.	5.	5.
74842	1.	10.	11.	23.	9.	8.	23.	3.
74844	3.	11.	6.	16.	16.	15.	5.	9.

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SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 2

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74845	3.	14.	12.	23.	9.	20.	14.	7.
74854	0.	9.	11.	15.	18.	10.	18.	5.
74864	9.	10.	11.	16.	4.	22.	12.	0.
74867	1.	8.	1.	24.	9.	13.	7.	13.
MEAN	0.	11.	7.	21.	11.	14.	8.	8.
S.D.	4.9	4.2	5.7	5.6	6.0	4.8	5.5	5.5
N	30	30	30	30	30	30	30	30

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74742	3.	6.	14.	16.	14.	7.	9.	10.
74746	-4.	13.	1.	18.	-2.	22.	4.	14.
74753	-2.	13.	6.	26.	10.	26.	9.	20.
74761	-19.	21.	1.	22.	3.	25.	2.	18.
74762	1.	7.	6.	8.	18.	7.	6.	3.
74765	-1.	10.	1.	23.	15.	1.	17.	8.
74782	10.	4.	5.	19.	17.	10.	8.	2.
74785	1.	10.	14.	25.	13.	15.	7.	12.
74790	-11.	20.	11.	12.	9.	21.	4.	6.
74796	5.	7.	16.	23.	11.	18.	11.	16.
74797	-5.	15.	11.	11.	13.	14.	-2.	8.
74798	-5.	17.	2.	26.	14.	30.	-10.	10.
74802	2.	11.	2.	21.	4.	16.	-2.	15.
74805	3.	5.	7.	26.	22.	18.	4.	15.
74809	-7.	17.	0.	16.	11.	14.	11.	2.
74812	3.	10.	-5.	26.	20.	12.	2.	15.
74816	-2.	15.	2.	26.	18.	11.	10.	7.
74819	6.	12.	8.	23.	19.	20.	2.	-1.
74823	-2.	18.	11.	27.	12.	21.	16.	8.
74824	-2.	11.	-6.	25.	11.	17.	-5.	13.
74835	2.	6.	5.	10.	12.	0.	16.	15.
74838	1.	16.	2.	26.	9.	16.	2.	13.
74839	3.	4.	14.	24.	12.	11.	9.	8.
74846	-4.	16.	-3.	22.	12.	15.	7.	2.
74856	13.	2.	10.	18.	15.	7.	11.	20.
74859	5.	8.	6.	14.	26.	19.	0.	1.

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TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 4

DAY	FEMALE GROUP: 500 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74861	-1.	13.	4.	25.	16.	13.	11.	9.	
74863	6.	10.	8.	16.	20.	19.	7.	1.	
74869	4.	5.	4.	21.	17.	9.	-1.	10.	
74873	1.	11.	-8.	31.	17.	11.	6.	17.	
MEAN	0.	11.	5.	21.	14.	15.	6.	10.	
S.D.	6.1	5.1	6.1	5.8	5.7	6.9	6.3	6.0	
N	30	30	30	30	30	30	30	30	

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP:							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74738	4.	4.	13.	16.	-3.	19.	-1.	7.
74739	0.	13.	4.	21.	6.	10.	16.	13.
74743	4.	11.	11.	20.	15.	10.	10.	17.
74744	-5.	11.	8.	14.	10.	9.	10.	8.
74748	-2.	14.	3.	20.	19.	9.	0.	12.
74752	1.	9.	6.	22.	13.	19.	-1.	7.
74766	-9.	15.	4.	22.	3.	12.	6.	8.
74777	1.	14.	6.	27.	20.	11.	3.	18.
74780	-9.	18.	5.	12.	24.	14.	10.	7.
74791	-6.	14.	5.	20.	-2.	5.	30.	1.
74793	6.	4.	3.	24.	13.	12.	4.	17.
74795	10.	1.	10.	5.	32.	10.	1.	5.
74799	3.	13.	11.	15.	14.	2.	16.	-3.
74801	-1.	13.	7.	21.	14.	14.	2.	7.
74806	-5.	12.	3.	21.	8.	17.	8.	10.
74818	4.	9.	7.	21.	12.	16.	10.	13.
74820	2.	12.	3.	17.	12.	13.	3.	9.
74821	-2.	1.	12.	7.	18.	20.	9.	2.
74830	1.	13.	4.	6.	18.	20.	-5.	0.
74831	-8.	21.	20.	15.	8.	18.	12.	3.
74834	10.	5.	9.	17.	16.	10.	10.	12.
74847	1.	6.	2.	23.	7.	17.	8.	5.
74848	6.	9.	6.	22.	15.	8.	12.	10.
74849	-3.	14.	8.	16.	8.	25.	12.	8.
74850	-9.	21.	3.	18.	8.	3.	16.	3.
74855	7.	10.	7.	7.	13.	10.	-25.	48.

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TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74858	0.	9.	-2.	24.	21.	13.	0.	5.
74865	5.	12.	6.	24.	23.	16.	13.	-1.
74868	-5.	18.	8.	23.	13.	15.	11.	9.
74871	9.	10.	8.	19.	15.	-3.	20.	12.
MEAN	0.	11.	7.	18.	13.	12.	7.	9.
S.D.	5.6	5.1	4.2	5.8	7.4	6.0	9.5	9.0
N	30	30	30	30	30	30	30	30

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TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP: 2500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74747	-12.	11.	7.	14.	15.	13.	12.	0.
74750	1.	10.	7.	21.	7.	14.	9.	11.
74751	1.	12.	5.	15.	9.	15.	12.	-4.
74754	-3.	10.	1.	21.	7.	17.	6.	0.
74755	-5.	11.	-4.	29.	5.	16.	5.	5.
74768	0.	12.	11.	17.	14.	10.	9.	10.
74769	-4.	21.	1.	20.	31.	9.	11.	14.
74770	-5.	21.	9.	17.	8.	26.	12.	0.
74781	0.	10.	0.	17.	21.	10.	11.	10.
74784	1.	11.	0.	18.	9.	17.	3.	1.
74786	2.	10.	5.	24.	9.	13.	11.	5.
74787	3.	8.	4.	16.	12.	12.	8.	12.
74792	6.	3.	9.	20.	3.	10.	6.	9.
74800	5.	7.	3.	11.	1.	22.	5.	6.
74803	1.	9.	5.	24.	11.	9.	18.	12.
74807	10.	9.	9.	26.	15.	12.	13.	9.
74811	-1.	13.	3.	16.	20.	11.	14.	-4.
74813	1.	12.	7.	20.	11.	13.	2.	-18.
74817	-3.	12.	0.	31.	8.	1.	25.	-2.
74822	-5.	17.	5.	16.	9.	19.	14.	7.
74827	-8.	20.	8.	15.	8.	14.	17.	8.
74832	1.	8.	-7.	25.	4.	20.	1.	9.
74833	-1.	12.	1.	13.	21.	10.	12.	1.
74836	2.	8.	0.	22.	19.	10.	8.	5.
74853	-3.	17.	6.	23.	6.	19.	5.	5.
74857	6.	10.	3.	29.	3.	22.	20.	4.

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 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74860	-8.	11.	15.	9.	9.	12.	14.	4.	
74862	2.	4.	11.	24.	0.	8.	2.	18.	
74866	2.	3.	12.	27.	8.	19.	18.	12.	
74870	10.	10.	18.	26.	14.	13.	13.	14.	
MEAN	0.	11.	5.	20.	11.	14.	11.	5.	
S.D.	5.0	4.5	5.4	5.6	6.8	5.1	5.7	7.1	
N	30	30	30	30	30	30	30	30	

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TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP:									
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98	0 PPM	
ANIMAL										
74737	10.	-12.	17.	0.	NA	NA	NA	NA		
74740	8.	7.	-3.	12.	NA	NA	NA	NA		
74745	19.	11.	2.	5.	4.	3.	-3.	3.		
74749	17.	-2.	6.	-3.	NA	NA	NA	NA		
74756	13.	4.	10.	8.	3.	8.	-5.	6.		
74757	17.	0.	0.	14.	NA	NA	NA	NA		
74759	4.	-3.	12.	5.	NA	NA	NA	NA		
74764	2.	8.	1.	7.	NA	NA	NA	NA		
74767	7.	10.	5.	3.	NA	NA	NA	NA		
74772	10.	-2.	9.	13.	NA	NA	NA	NA		
74773	11.	0.	-2.	13.	NA	NA	NA	NA		
74774	12.	2.	5.	-1.	NA	NA	NA	NA		
74779	11.	1.	3.	13.	NA	NA	NA	NA		
74789	6.	4.	8.	5.	NA	NA	NA	NA		
74794	10.	18.	23.	0.	NA	NA	NA	NA		
74804	20.	5.	-4.	0.	NA	NA	NA	NA		
74808	23.	-3.	9.	9.	NA	NA	NA	NA		
74810	6.	-10.	16.	8.	NA	NA	NA	NA		
74815	6.	5.	9.	2.	16.	10.	0.	-3.		
74826	21.	-3.	-1.	-10.	NA	NA	NA	NA		
74828	13.	-7.	4.	1.	NA	NA	NA	NA		
74829	18.	-1.	1.	2.	NA	NA	NA	NA		
74840	12.	12.	-3.	3.	NA	NA	NA	NA		
74841	4.	-3.	12.	7.	NA	NA	NA	NA		
74842	11.	7.	-9.	9.	-4.	16.	7.	-9.		
74844	13.	4.	4.	-1.	NA	NA	NA	NA		

NA = NOT APPLICABLE

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TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	FEMALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74845	14.	1.	16.	5.	NA	NA	NA	NA
74854	11.	-3.	6.	5.	NA	NA	NA	NA
74864	18.	-2.	7.	5.	NA	NA	NA	NA
74867	12.	-8.	2.	11.	NA	NA	NA	NA
MEAN	12.	1.	6.	5.	5.	9.	0.	-1.
S.D.	5.4	6.7	7.1	5.6	8.3	5.4	5.3	6.7
N	30	30	30	30	4	4	4	4

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	FEMALE GROUP:				500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74742	9.	-1.	10.	14.	NA	NA	NA	NA
74746	8.	-1.	10.	6.	NA	NA	NA	NA
74753	3.	4.	3.	2.	NA	NA	NA	NA
74761	4.	-2.	5.	5.	NA	NA	NA	NA
74762	8.	6.	-6.	12.	NA	NA	NA	NA
74765	8.	-3.	17.	7.	NA	NA	NA	NA
74782	10.	13.	6.	3.	NA	NA	NA	NA
74785	3.	-2.	22.	5.	NA	NA	NA	NA
74790	5.	9.	10.	-7.	NA	NA	NA	NA
74796	3.	3.	15.	7.	NA	NA	NA	NA
74797	6.	3.	12.	-2.	NA	NA	NA	NA
74798	15.	-10.	4.	12.	NA	NA	NA	NA
74802	9.	-5.	7.	3.	NA	NA	NA	NA
74805	10.	-6.	6.	7.	NA	NA	NA	EUTH IN EXTREMIS DAY 94
74809	1.	14.	3.	1.	NA	NA	NA	NA
74812	17.	1.	-2.	9.	NA	NA	NA	NA
74816	11.	-2.	9.	11.	30.	25.	60.	NA
74819	14.	8.	-1.	6.	NA	NA	NA	NA
74823	11.	13.	2.	2.	NA	NA	NA	NA
74824	11.	-1.	3.	1.	NA	NA	NA	NA
74835	2.	0.	4.	11.	NA	NA	NA	NA
74838	19.	1.	-2.	6.	NA	NA	NA	NA
74839	8.	4.	2.	14.	NA	NA	NA	NA
74846	25.	-12.	20.	10.	NA	NA	NA	NA
74856	6.	-7.	15.	17.	NA	NA	NA	NA
74859	8.	12.	1.	-5.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 12

DAY	FEMALE GROUP: 500 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74861	10.	-5.	0.	19.	NA	NA	NA	NA
74863	19.	2.	5.	-1.	NA	NA	NA	NA
74869	9.	4.	-5.	7.	NA	NA	NA	NA
74873	10.	-8.	52.	-12.	NA	NA	NA	NA
MEAN	9.	1.	8.	6.	30.	25.	60.	
S.D.	5.5	6.9	10.9	6.9	0.0	0.0	0.0	
N	30	30	30	30	1	1	1	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 13

DAY	FEMALE GROUP:				1000 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74738	8.	-3.	-2.	18.	NA	NA	NA	NA
74739	4.	-4.	7.	6.	NA	NA	NA	NA
74743	2.	-4.	13.	8.	NA	NA	NA	NA
74744	1.	10.	7.	5.	NA	NA	NA	NA
74748	19.	-7.	35.	-12.	NA	NA	NA	NA
74752	16.	2.	0.	16.	NA	NA	NA	NA
74766	1.	7.	7.	4.	NA	NA	NA	NA
74777	-2.	17.	6.	-4.	NA	NA	NA	NA
74780	15.	6.	15.	-1.	NA	NA	NA	NA
74791	9.	8.	8.	8.	NA	NA	NA	NA
74793	3.	7.	-1.	5.	NA	NA	NA	NA
74795	14.	11.	-8.	25.	NA	NA	NA	NA
74799	24.	-3.	0.	2.	NA	NA	NA	NA
74801	8.	2.	-2.	14.	NA	NA	NA	NA
74806	12.	-1.	0.	11.	NA	NA	NA	NA
74818	6.	0.	6.	0.	-1.	2.	-2.	0.
74820	10.	6.	-2.	14.	NA	NA	NA	NA
74821	19.	4.	1.	9.	NA	NA	NA	NA
74830	24.	1.	1.	3.	27.	22.	34.	NA
74831	-4.	13.	7.	7.	NA	NA	NA	NA
74834	8.	2.	8.	10.	NA	NA	NA	NA
74847	14.	3.	-1.	12.	NA	NA	NA	NA
74848	6.	6.	-2.	11.	NA	NA	NA	NA
74849	4.	7.	6.	5.	NA	NA	NA	NA
74850	18.	-9.	15.	3.	NA	NA	NA	NA
74855	14.	0.	8.	11.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	FEMALE GROUP:							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74858	13.	-4.	3.	13.	NA	NA	NA	NA
74865	15.	9.	7.	2.	NA	NA	NA	NA
74868	14.	3.	12.	-1.	NA	NA	NA	NA
74871	11.	-12.	13.	12.	NA	NA	NA	NA
MEAN	10.	3.	6.	7.	13.	12.	16.	0.
S.D.	7.2	6.6	8.0	7.3	19.8	14.1	25.5	0.0
N	30	30	30	30	2	2	2	1

NA = NOT APPLICABLE

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP:				2500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74747	18.	-2.	-2.	12.	NA	NA	NA	NA
74750	8.	-1.	6.	4.	NA	NA	NA	NA
74751	8.	7.	0.	4.	NA	NA	NA	NA
74754	13.	3.	4.	13.	NA	NA	NA	NA
74755	16.	-5.	6.	11.	NA	NA	NA	NA
74768	7.	5.	4.	8.	NA	NA	NA	NA
74769	-3.	11.	7.	4.	NA	NA	NA	NA
74770	21.	6.	2.	0.	NA	NA	NA	NA
74781	11.	-2.	0.	18.	-11.	NA	NA	NA
74784	5.	1.	1.	9.	NA	NA	NA	NA
74786	11.	-3.	10.	12.	NA	NA	NA	NA
74787	13.	0.	-2.	11.	NA	NA	NA	NA
74792	4.	3.	3.	8.	NA	NA	NA	NA
74800	11.	-9.	15.	-6.	NA	NA	NA	NA
74803	5.	-4.	7.	10.	NA	NA	NA	NA
74807	8.	1.	15.	5.	NA	NA	NA	NA
74811	28.	-2.	-11.	18.	NA	NA	NA	NA
74813	15.	13.	1.	5.	NA	NA	NA	NA
74817	8.	8.	5.	27.	NA	NA	NA	NA
74822	6.	7.	-1.	8.	NA	NA	NA	NA
74827	-3.	10.	11.	1.	NA	NA	NA	NA
74832	13.	-2.	3.	9.	NA	NA	NA	NA
74833	16.	36.	18.	-22.	NA	NA	NA	NA
74836	10.	2.	6.	-1.	NA	NA	NA	NA
74853	13.	1.	6.	9.	NA	NA	NA	NA
74857	18.	-5.	5.	28.	NA	NA	NA	NA

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	FEMALE GROUP: 70 TO 77	2500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74860	9.	9.	0.	2.	NA	NA	NA	NA
74862	0.	14.	3.	2.	NA	NA	NA	NA
74866	10.	-1.	17.	2.	NA	NA	NA	NA
74870	3.	0.	12.	1.	NA	NA	NA	NA
MEAN	10.	3.	5.	7.	-11.			
S.D.	6.8	8.4	6.3	9.3	0.0			
N	30	30	30	30	1			

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 17

DAY	FEMALE GROUP:				0 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74737	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74740	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74745	-4.	3.	12.	14.	SCHEDULED EUTH DAY	129
74749	NA	2.	-2.	4.	SCHEDULED EUTH DAY	129
74756	-2.	11.	-3.	15.	SCHEDULED EUTH DAY	129
74757	NA	NA	NA	NA	4. SCHEDULED EUTH DAY	133
74759	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74764	NA	NA	NA	NA	-4. SCHEDULED EUTH DAY	133
74767	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74772	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74773	NA	NA	NA	NA	11. SCHEDULED EUTH DAY	133
74774	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74779	10.	-2.	3.	5.	3. SCHEDULED EUTH DAY	133
74789	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74794	10.	4.	-2.	15.	6. SCHEDULED EUTH DAY	133
74804	NA	NA	NA	NA	-28. SCHEDULED EUTH DAY	133
74808	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74810	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74815	9.	-4.	5.	15.	SCHEDULED EUTH DAY	132
74826	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74828	3.	6.	-10.	15.	SCHEDULED EUTH DAY	129
74829	NA	NA	NA	NA	-9. SCHEDULED EUTH DAY	133
74840	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74841	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74842	-18.	1.	40.	21.	SCHEDULED EUTH DAY	128
74844	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 18

DAY	FEMALE GROUP: 0 PPM				
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133
ANIMAL					
74845	NA	NA	NA	NA	SCHEDULED EUTH DAY 132
74854	NA	NA	NA	NA	SCHEDULED EUTH DAY 128
74864	NA	NA	NA	NA	SCHEDULED EUTH DAY 132
74867	NA	NA	NA	NA	SCHEDULED EUTH DAY 132
MEAN	1.	3.	5.	13.	-2.
S.D.	10.2	4.7	15.4	5.7	13.0
N	7	8	8	8	7

NA = NOT APPLICABLE

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 500 PPM	
ANIMAL							
74742	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74746	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74753	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74761	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74762	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74765	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74782	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74785	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74790	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74796	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74797	NA	NA	NA	NA	NA	14. SCHEDULED EUTH DAY	133
74798	NA	NA	NA	NA	NA	2. SCHEDULED EUTH DAY	133
74802	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74809	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74812	NA	NA	NA	NA	NA	-2. SCHEDULED EUTH DAY	133
74816	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74819	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74823	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74824	NA	NA	NA	NA	NA	15. SCHEDULED EUTH DAY	133
74835	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74838	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74839	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74846	NA	NA	NA	NA	NA	23. SCHEDULED EUTH DAY	133
74856	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74859	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74861	NA	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP:	500 PPM
ANIMAL							
74863	NA	NA	NA	NA	17.	SCHEDULED EUTH DAY	133
74869	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74873	2.	12.	8.	1.	-1.	SCHEDULED EUTH DAY	133
MEAN	2.	12.	8.	1.	10.		
S.D.	0.0	0.0	0.0	0.0	9.9		
N	1	1	1	1	7		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 21

DAY	FEMALE GROUP: 1000 PPM							
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74738	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74739	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74743	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74744	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74748	NA	NA	NA	NA	14. SCHEDULED EUTH DAY	133		
74752	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74766	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74777	-4.	-14.	11.	22.	SCHEDULED EUTH DAY	129		
74780	NA	NA	NA	NA	0. SCHEDULED EUTH DAY	133		
74791	NA	NA	NA	NA	14. SCHEDULED EUTH DAY	133		
74793	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74795	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74799	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74801	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74806	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74818	6.	4.	7.	12.	SCHEDULED EUTH DAY	129		
74820	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74821	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74830	NA	NA	NA	NA	-2. SCHEDULED EUTH DAY	133		
74831	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74834	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74847	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74848	NA	NA	NA	NA	9. SCHEDULED EUTH DAY	133		
74849	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74850	NA	NA	NA	NA	-18. SCHEDULED EUTH DAY	133		
74855	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		

NA = NOT APPLICABLE

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SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 22

DAY	FEMALE GROUP: 1000 PPM				
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133
ANIMAL					
74858	NA	NA	NA	NA	SCHEDULED EUTH DAY 132
74865	NA	-5.	9.	-1.	SCHEDULED EUTH DAY 132
74868	NA	NA	NA	NA	SCHEDULED EUTH DAY 128
74871	NA	NA	NA	NA	-4. SCHEDULED EUTH DAY 133
MEAN	1.	-5.	9.	11.	2.
S.D.	7.1	9.0	2.0	11.5	11.5
N	2	3	3	3	7

NA = NOT APPLICABLE

TABLE 136 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP:	2500 PPM
ANIMAL							
74747	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74750	8.	2.	-5.	19.		SCHEDULED EUTH DAY	132
74751	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74754	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74755	NA	NA	NA	NA	12.	SCHEDULED EUTH DAY	133
74768	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74769	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74770	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74781	NA	NA	1.	15.		SCHEDULED EUTH DAY	132
74784	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74786	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74787	NA	NA	NA	NA	-4.	SCHEDULED EUTH DAY	133
74792	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74800	NA	-28.	16.	-16.		SCHEDULED EUTH DAY	132
74803	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74807	NA	NA	NA	NA	-5.	SCHEDULED EUTH DAY	133
74811	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74813	NA	NA	NA	NA	4.	SCHEDULED EUTH DAY	133
74817	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74822	NA	NA	NA	NA	5.	SCHEDULED EUTH DAY	133
74827	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74832	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74833	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74836	NA	NA	NA	NA	7.	SCHEDULED EUTH DAY	133
74853	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74857	NA	NA	NA	NA		SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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SPONSOR:ACC

TABLE 136 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 24

DAY	FEMALE GROUP:					2500 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133		
ANIMAL							
74860	NA	NA	NA	NA	5.	SCHEDULED EUTH DAY	133
74862	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74866	NA	NA	NA	NA	17.	SCHEDULED EUTH DAY	133
74870	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
MEAN	8.	-13.	4.	6.	5.		
S.D.	0.0	21.2	10.8	19.2	7.4		
N	1	2	3	3	8		

NA = NOT APPLICABLE

PBFTSv4.25  
09/05/2002

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 1:		0 PPM					
74737	G	280.	306.	314.	313.	336.	407.
74740	G	283.	287.	289.	305.	319.	380.
74749	NG	278.	295.	303.	306.	297.	291.
74757	G	270.	277.	308.	317.	310.	404.
74759	G	256.	272.	284.	299.	312.	380.
74764	G	294.	306.	316.	336.	342.	414.
74767	G	282.	292.	293.	306.	320.	390.
74772	G	306.	277.	331.	350.	362.	444.
74773	G	325.	349.	365.	389.	403.	491.
74774	G	289.	315.	327.	342.	351.	421.
74779	NG	289.	298.	308.	309.	305.	308.
74789	G	273.	262.	288.	306.	314.	385.
74794	NG	331.	327.	323.	321.	320.	322.
74804	G	275.	300.	305.	327.	333.	405.
74808	G	315.	338.	355.	365.	383.	444.
74810	G	298.	314.	323.	335.	348.	436.
74826	G	270.	280.	244.	304.	316.	386.
74828	NG	273.	293.	295.	302.	309.	300.
74829	G	293.	293.	326.	334.	347.	419.
74840	G	274.	296.	309.	306.	311.	340.
74841	G	242.	254.	267.	273.	288.	339.
74844	G	273.	297.	309.	331.	340.	390.
74845	G	323.	334.	341.	352.	354.	400.
74854	G	304.	311.	320.	336.	342.	399.
74864	G	306.	293.	329.	345.	360.	436.
74867	G	285.	309.	319.	330.	342.	407.
MEAN		287.	298.	312.	327.	338.	405.
S.D.		20.8	23.7	27.4	25.5	26.2	33.8
N		22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 2:		500 PPM					
74742	G	289.	302.	306.	314.	328.	406.
74746	G	281.	296.	304.	312.	326.	404.
74753	G	303.	324.	339.	347.	361.	430.
74761	G	279.	302.	306.	311.	318.	389.
74762	G	243.	237.	258.	275.	278.	338.
74765	G	272.	285.	288.	295.	305.	331.
74782	G	304.	311.	323.	342.	350.	428.
74785	G	312.	323.	327.	334.	342.	402.
74790	G	267.	295.	308.	318.	332.	407.
74796	G	318.	326.	339.	355.	370.	442.
74797	G	265.	286.	296.	312.	329.	397.
74798	G	285.	287.	297.	318.	325.	394.
74802	G	292.	303.	317.	324.	336.	420.
74805	G	303.	290.	331.	343.	353.	421.
74809	G	241.	261.	273.	284.	296.	364.
74812	G	285.	273.	316.	335.	356.	429.
74819	G	318.	333.	334.	349.	354.	420.
74823	G	333.	339.	349.	370.	381.	442.
74824	G	279.	291.	306.	320.	327.	354.
74835	G	249.	269.	277.	288.	291.	356.
74838	G	309.	296.	327.	345.	364.	447.
74839	G	301.	317.	331.	340.	355.	437.
74846	G	293.	313.	320.	336.	343.	394.
74856	G	293.	323.	326.	330.	348.	420.
74859	G	294.	298.	305.	331.	346.	417.
74861	G	279.	299.	277.	316.	332.	366.

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TABLE 137 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 2:		500 PPM					
74863	G	307.	322.	334.	348.	362.	438.
74869	G	263.	251.	289.	295.	314.	367.
74873	NG	331.	333.	335.	339.	341.	338.
MEAN		288.	298.	311.	325.	337.	402.
S.D.		22.8	24.6	22.8	23.0	24.6	33.0
N		28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 3:		1000 PPM					
74738	G	259.	282.	294.	298.	312.	317.
74739	G	273.	294.	308.	317.	333.	410.
74743	G	299.	313.	331.	342.	359.	431.
74744	G	256.	269.	276.	292.	299.	380.
74748	G	292.	309.	313.	333.	349.	401.
74752	G	296.	327.	332.	351.	362.	437.
74766	G	252.	276.	286.	296.	317.	383.
74777	NG	302.	334.	347.	358.	352.	360.
74780	G	307.	319.	323.	339.	351.	404.
74791	G	272.	287.	294.	308.	313.	385.
74793	G	292.	315.	330.	343.	358.	447.
74795	G	299.	335.	353.	364.	374.	443.
74799	G	294.	314.	318.	344.	348.	413.
74801	G	291.	305.	313.	327.	340.	409.
74806	G	267.	300.	308.	326.	335.	416.
74820	G	274.	226.	206.	286.	314.	384.
74821	G	293.	315.	325.	343.	348.	391.
74831	G	314.	338.	343.	362.	381.	469.
74834	G	299.	313.	326.	328.	335.	399.
74847	G	271.	291.	298.	312.	320.	387.
74848	G	283.	306.	313.	320.	332.	398.
74849	G	260.	278.	290.	302.	315.	374.
74850	G	273.	292.	294.	309.	326.	399.
74855	G	304.	318.	321.	353.	361.	412.
74858	G	306.	313.	324.	346.	358.	424.
74865	G	329.	334.	344.	354.	359.	378.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 137 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

PAGE 5

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 3:		1000 PPM					
74868	G	324.	348.	354.	377.	383.	479.
74871	G	281.	298.	310.	319.	309.	383.
MEAN		287.	304.	312.	329.	340.	406.
S.D.		20.3	25.2	29.2	24.0	23.2	32.6
N		27	27	27	27	27	27

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 4:		2500 PPM					
74747	G	269.	292.	310.	312.	333.	421.
74750	NG	267.	289.	293.	301.	303.	292.
74751	G	259.	286.	261.	297.	307.	381.
74754	G	291.	310.	270.	327.	343.	417.
74755	G	285.	305.	288.	325.	343.	402.
74768	G	298.	319.	331.	338.	353.	427.
74769	G	304.	324.	310.	347.	370.	446.
74770	G	325.	351.	354.	365.	365.	437.
74781	NG	296.	304.	304.	299.	300.	306.
74784	G	258.	213.	196.	265.	282.	319.
74786	G	286.	301.	287.	327.	331.	401.
74787	G	267.	265.	288.	308.	332.	405.
74792	G	283.	303.	316.	325.	345.	413.
74800	G	258.	277.	285.	289.	301.	300.
74803	G	274.	297.	302.	309.	317.	368.
74807	G	295.	323.	330.	346.	357.	430.
74811	G	298.	276.	326.	329.	356.	432.
74813	G	263.	279.	289.	300.	317.	377.
74817	G	302.	310.	311.	339.	351.	420.
74822	G	318.	338.	308.	361.	369.	452.
74827	G	302.	325.	342.	353.	373.	441.
74832	G	275.	287.	297.	313.	328.	398.
74833	G	307.	324.	332.	351.	355.	417.
74836	G	281.	266.	289.	310.	328.	410.
74853	G	299.	323.	336.	348.	356.	447.
74857	G	307.	330.	341.	349.	359.	434.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 137 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

PAGE 7

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 4:		2500 PPM					
74860	G	277.	291.	299.	312.	320.	377.
74862	G	268.	273.	285.	301.	312.	388.
74866	G	324.	350.	352.	374.	385.	460.
74870	G	336.	359.	367.	382.	389.	434.
MEAN		290.	303.	307.	329.	342.	409.
S.D.		21.6	31.5	34.4	27.3	26.0	37.1
N		28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 1:		0 PPM				
74737	G	26.	8.	-1.	23.	71.
74740	G	4.	2.	16.	14.	61.
74749	NG	17.	8.	3.	-9.	-6.
74757	G	7.	31.	9.	-7.	94.
74759	G	16.	12.	15.	13.	68.
74764	G	12.	10.	20.	6.	72.
74767	G	10.	1.	13.	14.	70.
74772	G	-29.	54.	19.	12.	82.
74773	G	24.	16.	24.	14.	88.
74774	G	26.	12.	15.	9.	70.
74779	NG	9.	10.	1.	-4.	3.
74789	G	-11.	26.	18.	8.	71.
74794	NG	-4.	-4.	-2.	-1.	2.
74804	G	25.	5.	22.	6.	72.
74808	G	23.	17.	10.	18.	61.
74810	G	16.	9.	12.	13.	88.
74826	G	10.	-36.	60.	12.	70.
74828	NG	20.	2.	7.	7.	-9.
74829	G	0.	33.	8.	13.	72.
74840	G	22.	13.	-3.	5.	29.
74841	G	12.	13.	6.	15.	51.
74844	G	24.	12.	22.	9.	50.
74845	G	11.	7.	11.	2.	46.
74854	G	7.	9.	16.	6.	57.
74864	G	-13.	36.	16.	15.	76.
74867	G	24.	10.	11.	12.	65.
MEAN		11.	14.	15.	11.	67.
S.D.		14.4	16.9	12.1	6.2	14.9
N		22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 2:		500 PPM				
74742	G	13.	4.	8.	14.	78.
74746	G	15.	8.	8.	14.	78.
74753	G	21.	15.	8.	14.	69.
74761	G	23.	4.	5.	7.	71.
74762	G	-6.	21.	17.	3.	60.
74765	G	13.	3.	7.	10.	26.
74782	G	7.	12.	19.	8.	78.
74785	G	11.	4.	7.	8.	60.
74790	G	28.	13.	10.	14.	75.
74796	G	8.	13.	16.	15.	72.
74797	G	21.	10.	16.	17.	68.
74798	G	2.	10.	21.	7.	69.
74802	G	11.	14.	7.	12.	84.
74805	G	-13.	41.	12.	10.	68.
74809	G	20.	12.	11.	12.	68.
74812	G	-12.	43.	19.	21.	73.
74819	G	15.	1.	15.	5.	66.
74823	G	6.	10.	21.	11.	61.
74824	G	12.	15.	14.	7.	27.
74835	G	20.	8.	11.	3.	65.
74838	G	-13.	31.	18.	19.	83.
74839	G	16.	14.	9.	15.	82.
74846	G	20.	7.	16.	7.	51.
74856	G	30.	3.	4.	18.	72.
74859	G	4.	7.	26.	15.	71.
74861	G	20.	-22.	39.	16.	34.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 138 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 3

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 2:		500 PPM				
74863	G	15.	12.	14.	14.	76.
74869	G	-12.	38.	6.	19.	53.
74873	NG	2.	2.	4.	2.	-3.
MEAN		11.	13.	14.	12.	66.
S.D.		12.3	13.1	7.5	4.9	15.3
N		28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 138 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 3:		1000 PPM				
74738	G	23.	12.	4.	14.	5.
74739	G	21.	14.	9.	16.	77.
74743	G	14.	18.	11.	17.	72.
74744	G	13.	7.	16.	7.	81.
74748	G	17.	4.	20.	16.	52.
74752	G	31.	5.	19.	11.	75.
74766	G	24.	10.	10.	21.	66.
74777	NG	32.	13.	11.	-6.	8.
74780	G	12.	4.	16.	12.	53.
74791	G	15.	7.	14.	5.	72.
74793	G	23.	15.	13.	15.	89.
74795	G	36.	18.	11.	10.	69.
74799	G	20.	4.	26.	4.	65.
74801	G	14.	8.	14.	13.	69.
74806	G	33.	8.	18.	9.	81.
74820	G	-48.	-20.	80.	28.	70.
74821	G	22.	10.	18.	5.	43.
74831	G	24.	5.	19.	19.	88.
74834	G	14.	13.	2.	7.	64.
74847	G	20.	7.	14.	8.	67.
74848	G	23.	7.	7.	12.	66.
74849	G	18.	12.	12.	13.	59.
74850	G	19.	2.	15.	17.	73.
74855	G	14.	3.	32.	8.	51.
74858	G	7.	11.	22.	12.	66.
74865	G	5.	10.	10.	5.	19.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 138 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 5

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 3:		1000 PPM				
74868	G	24.	6.	23.	6.	96.
74871	G	17.	12.	9.	-10.	74.
MEAN		17.	8.	17.	11.	65.
S.D.		14.8	7.1	14.2	7.0	19.5
N		27	27	27	27	27

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 138 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 4:		2500 PPM				
74747	G	23.	18.	2.	21.	88.
74750	NG	22.	4.	8.	2.	-11.
74751	G	27.	-25.	36.	10.	74.
74754	G	19.	-40.	57.	16.	74.
74755	G	20.	-17.	37.	18.	59.
74768	G	21.	12.	7.	15.	74.
74769	G	20.	-14.	37.	23.	76.
74770	G	26.	3.	11.	0.	72.
74781	NG	8.	0.	-5.	1.	6.
74784	G	-45.	-17.	69.	17.	37.
74786	G	15.	-14.	40.	4.	70.
74787	G	-2.	23.	20.	24.	73.
74792	G	20.	13.	9.	20.	68.
74800	G	19.	8.	4.	12.	-1.
74803	G	23.	5.	7.	8.	51.
74807	G	28.	7.	16.	11.	73.
74811	G	-22.	50.	3.	27.	76.
74813	G	16.	10.	11.	17.	60.
74817	G	8.	1.	28.	12.	69.
74822	G	20.	-30.	53.	8.	83.
74827	G	23.	17.	11.	20.	68.
74832	G	12.	10.	16.	15.	70.
74833	G	17.	8.	19.	4.	62.
74836	G	-15.	23.	21.	18.	82.
74853	G	24.	13.	12.	8.	91.
74857	G	23.	11.	8.	10.	75.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 138 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 7

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20
DAMS FROM GROUP 4:		2500 PPM				
74860	G	14.	8.	13.	8.	57.
74862	G	5.	12.	16.	11.	76.
74866	G	26.	2.	22.	11.	75.
74870	G	23.	8.	15.	7.	45.
MEAN		14.	4.	21.	13.	67.
S.D.		16.6	18.4	17.2	6.6	17.9
N		28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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	DAY 1	4	7	14	21	28
<hr/>						
DAMS FROM GROUP 1:	0 PPM					
<hr/>						
74737	296.	332.	339.	304.	364.	274.
74740	292.	310.	306.	321.	314.	258.
74757	279.	294.	318.	316.	372.	276.
74759	269.	273.	277.	298.	298.	239.
74764	317.	333.	330.	330.	313.	274.
74767	284.	298.	294.	329.	316.	297.
74772	333.	344.	355.	380.	386.	323.
74773	364.	375.	375.	396.	381.	334.
74774	321.	329.	317.	363.	372.	328.
74789	280.	292.	298.	317.	340.	293.
74804	296.	305.	322.	343.	336.	320.
74808	343.	379.	395.	354.	418.	370.
74810	315.	336.	351.	316.	386.	313.
74826	298.	309.	327.	356.	364.	300.
74829	302.	283.	324.	356.	363.	283.
74840	288.	298.	304.	330.	344.	299.
74841	249.	275.	281.	319.	314.	266.
74844	306.	337.	338.	357.	344.	296.
74845	313.	338.	344.	371.	376.	326.
74854	303.	320.	322.	355.	370.	320.
74864	321.	339.	339.	260.	375.	367.
74867	309.	331.	343.	365.	359.	291.
MEAN	304.	320.	327.	338.	355.	302.
S.D.	25.2	28.7	28.5	31.1	30.2	32.7
N	22	22	22	22	22	22

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	DAY 1	4	7	14	21	28		
DAMS FROM GROUP 2:		500 PPM						
74742	298.	295.	316.	330.	338.	315.		
74746	299.	311.	310.	314.	360.	339.		
74753	350.	363.	351.	339.	373.	335.		
74761	282.	283.	296.	325.	359.	321.		
74762	251.	270.	263.	265.	315.	292.		
74765	283.	278.	249.	NA	NA	NA	TOTAL LITTER LOSS DAY 12	
74782	328.	328.	307.	360.	377.	374.		
74785	313.	322.	333.	362.	373.	337.		
74790	311.	342.	357.	393.	290.	346.		
74796	312.	345.	339.	311.	374.	329.		
74797	303.	304.	323.	356.	344.	313.		
74798	300.	308.	318.	351.	344.	344.		
74802	313.	328.	340.	364.	357.	293.		
74805	NA	NA	NA	NA	NA	NA		
74809	263.	291.	252.	308.	312.	295.		
74812	331.	332.	329.	335.	NA	NA	TOTAL LITTER LOSS DAY 14	
74816	337.	364.	365.	353.	381.	332.		
74819	306.	315.	351.	341.	397.	344.		
74823	333.	342.	340.	374.	373.	346.		
74824	286.	282.	304.	328.	356.	307.		
74835	271.	290.	290.	269.	315.	282.		
74838	326.	338.	352.	349.	357.	340.		
74839	317.	340.	353.	363.	379.	331.		
74846	306.	330.	334.	319.	374.	310.		
74856	311.	344.	349.	315.	381.	324.		
74859	322.	333.	351.	334.	381.	300.		

NA = NOT APPLICABLE

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TABLE 139 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING LACTATION [G]

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	DAY 1	4	7	14	21	28
<hr/>						
DAMS FROM GROUP 2:	500 PPM					
<hr/>						
74861	323.	336.	339.	352.	368.	354.
74863	335.	359.	341.	365.	346.	312.
74869	284.	288.	296.	287.	347.	297.
MEAN	307.	320.	323.	336.	357.	324.
S.D.	23.6	27.2	31.6	30.7	25.8	22.6
N	28	28	28	27	26	26

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	DAY 1	4	7	14	21	28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
<hr/>						
74738	262.	288.	296.	324.	318.	285.
74739	301.	326.	315.	373.	373.	320.
74743	328.	333.	332.	365.	348.	316.
74744	265.	269.	276.	309.	345.	291.
74748	320.	320.	341.	371.	371.	344.
74752	313.	330.	337.	326.	365.	287.
74766	290.	309.	305.	328.	336.	284.
74780	323.	348.	347.	353.	365.	329.
74791	280.	295.	299.	324.	322.	290.
74793	327.	337.	339.	375.	388.	332.
74795	344.	347.	345.	364.	374.	345.
74799	316.	315.	340.	378.	370.	336.
74801	300.	319.	330.	325.	366.	314.
74806	307.	321.	318.	361.	364.	308.
74820	284.	320.	321.	341.	352.	292.
74821	316.	323.	332.	355.	357.	314.
74830	298.	315.	309.	315.	355.	298.
74831	322.	363.	375.	411.	404.	376.
74834	295.	309.	323.	318.	371.	314.
74847	296.	300.	303.	324.	330.	274.
74848	298.	316.	321.	318.	367.	297.
74849	274.	295.	311.	335.	332.	288.
74850	291.	294.	306.	282.	325.	302.
74855	322.	337.	344.	393.	392.	335.
74858	316.	338.	358.	348.	379.	327.
74868	334.	346.	346.	372.	388.	377.

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 139 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING LACTATION [G]

PAGE 5

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	DAY 1	4	7	14	21	28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
<hr/>						
74871	283.	314.	325.	351.	283.	307.
MEAN	304.	320.	326.	346.	357.	314.
S.D.	21.1	21.1	21.5	29.2	26.7	26.6
N	27	27	27	27	27	27

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	DAY 1	4	7	14	21	28	
-----							
DAMS FROM GROUP 4:	2500 PPM						
-----							
74747	299.	324.	323.	342.	389.	334.	
74751	283.	305.	325.	352.	342.	295.	
74754	324.	337.	352.	375.	352.	305.	
74755	309.	319.	324.	344.	346.	307.	
74768	328.	339.	342.	363.	367.	332.	
74769	328.	349.	352.	362.	378.	372.	
74770	326.	352.	375.	396.	385.	324.	
74784	272.	NA	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 2
74786	295.	306.	327.	354.	331.	293.	
74787	305.	293.	313.	295.	338.	302.	
74792	298.	312.	328.	356.	362.	313.	
74803	286.	277.	283.	309.	NA	NA	TOTAL LITTER LOSS DAY 16
74807	316.	330.	326.	370.	363.	340.	
74811	310.	335.	345.	365.	362.	332.	
74813	285.	304.	309.	284.	321.	292.	
74817	317.	336.	347.	370.	378.	322.	
74822	345.	368.	374.	393.	383.	335.	
74827	319.	329.	352.	372.	375.	333.	
74832	287.	312.	318.	326.	330.	265.	
74833	327.	330.	344.	367.	335.	326.	
74836	298.	312.	321.	341.	343.	289.	
74853	319.	330.	348.	374.	396.	312.	
74857	328.	332.	348.	354.	365.	326.	
74860	287.	300.	323.	340.	351.	320.	
74862	287.	278.	295.	322.	345.	294.	
74866	344.	359.	369.	385.	390.	309.	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 139 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING LACTATION [G]

PAGE 7

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	DAY 1	4	7	14	21	28
<hr/>						
DAMS FROM GROUP 4:	2500 PPM					
<hr/>						
74870	357.	369.	374.	395.	400.	358.
MEAN	310.	325.	336.	354.	361.	317.
S.D.	21.6	24.4	23.7	28.9	22.6	23.3
N	27	26	26	26	25	25

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09/25/2002

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 1:	0 PPM					
-----						
74737	36.	7.	-35.	60.	-90.	-22.
74740	18.	-4.	15.	-7.	-56.	-34.
74757	15.	24.	-2.	56.	-96.	-3.
74759	4.	4.	21.	0.	-59.	-30.
74764	16.	-3.	0.	-17.	-39.	-43.
74767	14.	-4.	35.	-13.	-19.	13.
74772	11.	11.	25.	6.	-63.	-10.
74773	11.	0.	21.	-15.	-47.	-30.
74774	8.	-12.	46.	9.	-44.	7.
74789	12.	6.	19.	23.	-47.	13.
74804	9.	17.	21.	-7.	-16.	24.
74808	36.	16.	-41.	64.	-48.	27.
74810	21.	15.	-35.	70.	-73.	-2.
74826	11.	18.	29.	8.	-64.	2.
74829	-19.	41.	32.	7.	-80.	-19.
74840	10.	6.	26.	14.	-45.	11.
74841	26.	6.	38.	-5.	-48.	17.
74844	31.	1.	19.	-13.	-48.	-10.
74845	25.	6.	27.	5.	-50.	13.
74854	17.	2.	33.	15.	-50.	17.
74864	18.	0.	-79.	115.	-8.	46.
74867	22.	12.	22.	-6.	-68.	-18.
MEAN	16.	8.	11.	17.	-53.	-1.
S.D.	11.7	11.4	31.1	34.5	21.7	22.7
N	22	22	22	22	22	22

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 2:	500 PPM						
-----							
74742	-3.	21.	14.	8.	-23.	17.	
74746	12.	-1.	4.	46.	-21.	40.	
74753	13.	-12.	-12.	34.	-38.	-15.	
74761	1.	13.	29.	34.	-38.	39.	
74762	19.	-7.	2.	50.	-23.	41.	
74765	-5.	-29.	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 12
74782	0.	-21.	53.	17.	-3.	46.	
74785	9.	11.	29.	11.	-36.	24.	
74790	31.	15.	36.	-103.	56.	35.	
74796	33.	-6.	-28.	63.	-45.	17.	
74797	1.	19.	33.	-12.	-31.	10.	
74798	8.	10.	33.	-7.	0.	44.	
74802	15.	12.	24.	-7.	-64.	-20.	
74805	NA	NA	NA	NA	NA	NA	
74809	28.	-39.	56.	4.	-17.	32.	
74812	1.	-3.	6.	NA	NA	NA	TOTAL LITTER LOSS DAY 14
74816	27.	1.	-12.	28.	-49.	-5.	
74819	9.	36.	-10.	56.	-53.	38.	
74823	9.	-2.	34.	-1.	-27.	13.	
74824	-4.	22.	24.	28.	-49.	21.	
74835	19.	0.	-21.	46.	-33.	11.	
74838	12.	14.	-3.	8.	-17.	14.	
74839	23.	13.	10.	16.	-48.	14.	
74846	24.	4.	-15.	55.	-64.	4.	
74856	33.	5.	-34.	66.	-57.	13.	
74859	11.	18.	-17.	47.	-81.	-22.	

NA = NOT APPLICABLE

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TABLE 140 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING LACTATION [G]

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 2:	500 PPM					
<hr/>						
74861	13.	3.	13.	16.	-14.	31.
74863	24.	-18.	24.	-19.	-34.	-23.
74869	4.	8.	-9.	60.	-50.	13.
MEAN	13.	3.	10.	21.	-33.	17.
S.D.	11.5	16.4	24.3	35.7	26.5	20.7
N	28	28	27	26	26	26

---

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 3:	1000 PPM					
-----						
74738	26.	8.	28.	-6.	-33.	23.
74739	25.	-11.	58.	0.	-53.	19.
74743	5.	-1.	33.	-17.	-32.	-12.
74744	4.	7.	33.	36.	-54.	26.
74748	0.	21.	30.	0.	-27.	24.
74752	17.	7.	-11.	39.	-78.	-26.
74766	19.	-4.	23.	8.	-52.	-6.
74780	25.	-1.	6.	12.	-36.	6.
74791	15.	4.	25.	-2.	-32.	10.
74793	10.	2.	36.	13.	-56.	5.
74795	3.	-2.	19.	10.	-29.	1.
74799	-1.	25.	38.	-8.	-34.	20.
74801	19.	11.	-5.	41.	-52.	14.
74806	14.	-3.	43.	3.	-56.	1.
74820	36.	1.	20.	11.	-60.	8.
74821	7.	9.	23.	2.	-43.	-2.
74830	17.	-6.	6.	40.	-57.	0.
74831	41.	12.	36.	-7.	-28.	54.
74834	14.	14.	-5.	53.	-57.	19.
74847	4.	3.	21.	6.	-56.	-22.
74848	18.	5.	-3.	49.	-70.	-1.
74849	21.	16.	24.	-3.	-44.	14.
74850	3.	12.	-24.	43.	-23.	11.
74855	15.	7.	49.	-1.	-57.	13.
74858	22.	20.	-10.	31.	-52.	11.
74868	12.	0.	26.	16.	-11.	43.

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 140 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING LACTATION [G]

PAGE 5

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
<hr/>						
74871	31.	11.	26.	-68.	24.	24.
MEAN	16.	6.	20.	11.	-43.	10.
S.D.	10.8	8.7	19.9	25.4	20.4	17.3
N	27	27	27	27	27	27

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 4:	2500 PPM						
-----							
74747	25.	-1.	19.	47.	-55.	35.	
74751	22.	20.	27.	-10.	-47.	12.	
74754	13.	15.	23.	-23.	-47.	-19.	
74755	10.	5.	20.	2.	-39.	-2.	
74768	11.	3.	21.	4.	-35.	4.	
74769	21.	3.	10.	16.	-6.	44.	
74770	26.	23.	21.	-11.	-61.	-2.	
74784	NA	NA	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 2
74786	11.	21.	27.	-23.	-38.	-2.	
74787	-12.	20.	-18.	43.	-36.	-3.	
74792	14.	16.	28.	6.	-49.	15.	
74803	-9.	6.	26.	NA	NA	NA	TOTAL LITTER LOSS DAY 16
74807	14.	-4.	44.	-7.	-23.	24.	
74811	25.	10.	20.	-3.	-30.	22.	
74813	19.	5.	-25.	37.	-29.	7.	
74817	19.	11.	23.	8.	-56.	5.	
74822	23.	6.	19.	-10.	-48.	-10.	
74827	10.	23.	20.	3.	-42.	14.	
74832	25.	6.	8.	4.	-65.	-22.	
74833	3.	14.	23.	-32.	-9.	-1.	
74836	14.	9.	20.	2.	-54.	-9.	
74853	11.	18.	26.	22.	-84.	-7.	
74857	4.	16.	6.	11.	-39.	-2.	
74860	13.	23.	17.	11.	-31.	33.	
74862	-9.	17.	27.	23.	-51.	7.	
74866	15.	10.	16.	5.	-81.	-35.	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 140 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING LACTATION [G]

PAGE 7

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 4:	2500 PPM					
<hr/>						
74870	12.	5.	21.	5.	-42.	1.
MEAN	13.	12.	18.	5.	-44.	4.
S.D.	10.4	7.8	13.7	19.3	18.4	18.1
N	26	26	26	25	25	25

PLBWv4.0  
07/08/2003

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 1

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DAY	MALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74602	25.	27.	NA	26.	26.	26.	26.	25.
74603	24.	25.	NA	22.	22.	22.	23.	23.
74610	20.	24.	NA	23.	24.	25.	25.	24.
74614	24.	23.	NA	23.	24.	24.	26.	27.
74616	26.	26.	NA	27.	28.	28.	29.	28.
74620	29.	28.	26.	26.	25.	26.	27.	26.
74627	28.	28.	26.	26.	26.	27.	27.	28.
74630	25.	26.	25.	24.	28.	28.	29.	28.
74632	27.	28.	25.	20.	23.	23.	29.	28.
74633	21.	24.	NA	26.	26.	26.	28.	28.
74636	25.	25.	23.	22.	22.	23.	23.	22.
74644	25.	27.	26.	23.	25.	26.	27.	26.
74645	27.	28.	23.	24.	25.	24.	25.	26.
74648	25.	25.	NA	22.	22.	25.	26.	26.
74656	23.	27.	NA	26.	28.	27.	29.	28.
74660	24.	23.	22.	25.	26.	27.	28.	26.
74664	25.	23.	22.	24.	24.	25.	26.	26.
74665	27.	28.	27.	27.	28.	30.	29.	30.
74669	26.	25.	NA	23.	23.	21.	22.	22.
74677	28.	27.	NA	26.	28.	27.	27.	28.
74681	25.	27.	28.	27.	29.	29.	30.	31.
74682	22.	25.	21.	25.	25.	25.	27.	26.
74686	27.	27.	26.	26.	26.	27.	28.	27.
74696	29.	28.	NA	28.	29.	29.	29.	29.
74698	37.	33.	NA	31.	31.	30.	27.	36.
74700	28.	26.	23.	23.	22.	23.	26.	24.

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 2

DAY	MALE GROUP: 0 PPM									
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42		
ANIMAL										
74701	25.	27.	23.	21.	25.	24.	26.	25.		
74707	31.	31.	29.	26.	27.	28.	29.	29.		
74711	27.	24.	NA	23.	24.	25.	27.	26.		
74724	26.	26.	NA	26.	25.	27.	28.	28.		
MEAN	26.	26.	25.	25.	26.	26.	27.	27.		
S.D.	3.1	2.2	2.3	2.3	2.4	2.3	2.0	2.8		
N	30	30	16	30	30	30	30	30		

NA = NOT APPLICABLE

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	MALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74601	25.	23.	21.	22.	22.	24.	23.	25.
74604	27.	28.	27.	27.	25.	26.	23.	24.
74605	25.	26.	24.	23.	24.	25.	27.	27.
74609	29.	31.	27.	28.	28.	29.	29.	27.
74612	29.	27.	26.	26.	28.	28.	29.	30.
74613	30.	28.	25.	27.	27.	27.	27.	30.
74621	24.	26.	24.	23.	17.	22.	22.	21.
74625	27.	23.	22.	21.	23.	23.	25.	25.
74626	31.	29.	28.	28.	27.	28.	28.	28.
74634	29.	26.	24.	25.	26.	26.	28.	28.
74641	28.	26.	25.	24.	25.	25.	27.	26.
74642	32.	30.	30.	29.	29.	29.	26.	29.
74655	25.	25.	23.	25.	25.	25.	26.	28.
74662	24.	24.	23.	23.	23.	23.	23.	23.
74666	25.	25.	22.	20.	22.	22.	24.	24.
74667	26.	28.	25.	26.	27.	29.	30.	32.
74671	24.	23.	20.	23.	24.	24.	25.	25.
74673	32.	29.	29.	28.	30.	28.	28.	29.
74676	26.	28.	26.	29.	29.	30.	30.	30.
74685	30.	26.	28.	25.	26.	27.	28.	28.
74689	26.	25.	24.	24.	24.	24.	24.	24.
74690	26.	24.	24.	22.	25.	25.	25.	26.
74704	25.	26.	23.	23.	25.	24.	25.	26.
74708	24.	24.	26.	24.	26.	25.	26.	26.
74709	27.	25.	24.	22.	24.	23.	24.	25.
74712	28.	30.	26.	22.	26.	25.	26.	26.

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 4

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74715	27.	24.	22.	22.	23.	23.	23.	24.
74722	22.	23.	22.	24.	25.	24.	25.	26.
74729	27.	28.	23.	22.	23.	24.	26.	25.
74733	29.	27.	25.	24.	23.	24.	25.	25.
MEAN	27.	26.	25.	24.	25.	25.	26.	26.
S.D.	2.5	2.3	2.4	2.5	2.6	2.3	2.2	2.4
N	30	30	30	30	30	30	30	30

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TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	MALE GROUP: 1000 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74606	21.	25.	24.	24.	25.	26.	27.	28.	
74607	30.	29.	27.	27.	24.	26.	26.	26.	
74608	24.	25.	25.	26.	24.	26.	28.	26.	
74611	25.	27.	26.	24.	26.	26.	28.	26.	
74615	28.	28.	26.	26.	27.	27.	28.	28.	
74617	32.	30.	25.	22.	23.	24.	25.	26.	
74618	28.	28.	24.	27.	27.	28.	27.	28.	
74619	28.	25.	24.	22.	22.	22.	23.	23.	
74622	28.	26.	24.	23.	23.	22.	26.	26.	
74638	28.	25.	24.	25.	26.	26.	27.	27.	
74639	28.	26.	24.	23.	23.	24.	28.	28.	
74650	34.	30.	24.	27.	26.	28.	25.	27.	
74661	25.	24.	21.	22.	22.	22.	25.	25.	
74668	29.	25.	23.	26.	26.	27.	27.	28.	
74670	28.	26.	24.	27.	28.	27.	26.	27.	
74674	25.	25.	24.	24.	24.	24.	25.	25.	
74675	24.	24.	23.	22.	22.	24.	24.	22.	
74679	22.	19.	21.	24.	22.	24.	26.	25.	
74683	29.	28.	26.	27.	27.	27.	27.	27.	
74684	25.	24.	21.	23.	25.	25.	25.	26.	
74691	26.	26.	21.	22.	22.	24.	25.	25.	
74693	29.	27.	27.	26.	26.	26.	28.	27.	
74699	30.	31.	27.	27.	27.	30.	30.	31.	
74706	27.	24.	24.	25.	26.	29.	29.	30.	
74710	28.	25.	26.	26.	26.	27.	24.	24.	
74717	32.	30.	25.	25.	25.	25.	27.	26.	

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 6

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	1000 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74719	26.	27.	25.	26.	26.	26.	27.	26.
74727	27.	29.	25.	27.	28.	28.	29.	27.
74734	30.	28.	25.	25.	24.	26.	27.	26.
74735	32.	31.	27.	25.	27.	30.	32.	30.
MEAN	28.	27.	24.	25.	25.	26.	27.	27.
S.D.	3.0	2.6	1.8	1.8	1.9	2.1	1.9	1.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 7

DAY	MALE GROUP: 2500 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74624	22.	23.	20.	21.	22.	23.	24.	24.	
74628	30.	26.	22.	23.	22.	23.	25.	22.	
74629	25.	25.	23.	23.	23.	23.	23.	23.	
74631	27.	26.	27.	23.	24.	25.	25.	25.	
74635	25.	25.	21.	24.	24.	23.	25.	25.	
74640	23.	24.	24.	25.	20.	22.	25.	26.	
74643	27.	27.	24.	23.	23.	23.	23.	25.	
74646	25.	26.	22.	24.	22.	23.	25.	26.	
74647	25.	24.	23.	23.	26.	27.	28.	27.	
74649	29.	28.	26.	23.	23.	23.	25.	25.	
74652	25.	25.	23.	24.	23.	25.	24.	25.	
74653	26.	26.	24.	25.	25.	27.	27.	27.	
74658	26.	29.	23.	22.	23.	23.	24.	24.	
74659	22.	25.	23.	23.	24.	24.	24.	25.	
74663	23.	24.	21.	22.	24.	24.	24.	23.	
74680	25.	26.	23.	24.	24.	25.	26.	27.	
74688	22.	25.	25.	27.	28.	28.	30.	29.	
74692	24.	24.	22.	21.	22.	23.	23.	23.	
74695	18.	29.	27.	26.	27.	26.	27.	29.	
74697	29.	28.	26.	26.	27.	26.	27.	27.	
74702	27.	26.	23.	23.	23.	22.	24.	26.	
74703	20.	23.	20.	21.	23.	25.	25.	24.	
74705	27.	25.	25.	25.	25.	25.	26.	27.	
74713	27.	27.	12.	23.	26.	26.	27.	26.	
74718	26.	26.	37.	27.	27.	28.	28.	28.	
74720	23.	24.	22.	23.	25.	25.	25.	26.	

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 8

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	2500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74723	24.	25.	23.	23.	24.	24.	25.	26.
74725	23.	25.	21.	23.	24.	24.	24.	25.
74726	27.	27.	25.	26.	26.	26.	26.	26.
74728	25.	25.	26.	26.	28.	28.	30.	29.
MEAN	25.	26.	23.	24.	24.	25.	25.	26.
S.D.	2.6	1.6	3.8	1.7	2.0	1.8	1.9	1.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

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DAY	MALE GROUP:				0 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74602	25.	26.	26.	25.	NA	NA	29.	26.
74603	23.	23.	23.	23.	NA	NA	22.	22.
74610	24.	25.	25.	24.	NA	NA	25.	26.
74614	27.	25.	27.	25.	NA	NA	26.	26.
74616	28.	29.	28.	27.	NA	NA	28.	28.
74620	26.	26.	27.	26.	NA	NA	27.	25.
74627	27.	27.	28.	27.	NA	NA	27.	26.
74630	28.	27.	28.	29.	NA	NA	29.	25.
74632	28.	27.	27.	27.	NA	NA	28.	31.
74633	29.	29.	29.	28.	NA	NA	30.	29.
74636	24.	23.	25.	23.	NA	NA	25.	25.
74644	26.	26.	26.	25.	NA	NA	26.	26.
74645	25.	26.	25.	26.	NA	NA	26.	26.
74648	26.	26.	26.	27.	NA	NA	27.	29.
74656	28.	28.	28.	27.	NA	NA	28.	27.
74660	25.	26.	26.	25.	NA	NA	27.	26.
74664	25.	26.	26.	24.	NA	NA	23.	23.
74665	30.	31.	30.	28.	NA	NA	30.	28.
74669	22.	23.	24.	23.	NA	NA	24.	23.
74677	28.	29.	29.	29.	NA	NA	29.	27.
74681	31.	28.	28.	26.	NA	NA	30.	30.
74682	29.	28.	27.	26.	NA	NA	26.	25.
74686	27.	27.	28.	28.	NA	NA	29.	27.
74696	29.	29.	28.	28.	NA	NA	27.	27.
74698	34.	37.	36.	33.	NA	NA	35.	34.
74700	26.	35.	25.	23.	NA	NA	25.	24.

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 10

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	0 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74701	26.	21.	25.	5.	NA	NA	20.	25.
74707	29.	30.	29.	30.	NA	NA	28.	28.
74711	28.	26.	27.	27.	NA	NA	28.	26.
74724	27.	28.	30.	28.	NA	NA	30.	27.
MEAN	27.	27.	27.	26.			27.	27.
S.D.	2.5	3.3	2.4	4.5			2.8	2.4
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 11

DAY	MALE GROUP:				500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74601	24.	23.	24.	24.	NA	NA	24.	22.
74604	23.	25.	24.	25.	NA	NA	26.	24.
74605	27.	27.	28.	26.	NA	NA	25.	26.
74609	27.	28.	27.	28.	NA	NA	30.	29.
74612	29.	31.	30.	29.	NA	NA	30.	30.
74613	28.	28.	29.	30.	NA	NA	30.	32.
74621	21.	22.	23.	22.	NA	NA	22.	23.
74625	23.	24.	24.	24.	NA	NA	24.	23.
74626	29.	28.	29.	28.	NA	NA	30.	26.
74634	27.	24.	26.	27.	NA	NA	28.	28.
74641	26.	27.	28.	28.	NA	NA	26.	26.
74642	30.	31.	31.	30.	NA	NA	33.	30.
74655	27.	26.	27.	24.	NA	NA	26.	24.
74662	25.	28.	27.	25.	NA	NA	26.	24.
74666	24.	23.	22.	22.	NA	NA	23.	22.
74667	29.	29.	30.	30.	NA	NA	30.	24.
74671	25.	25.	25.	23.	NA	NA	24.	23.
74673	30.	29.	30.	29.	NA	NA	27.	30.
74676	31.	32.	30.	27.	NA	NA	27.	30.
74685	27.	28.	28.	27.	NA	NA	28.	28.
74689	25.	25.	25.	21.	NA	NA	23.	23.
74690	27.	27.	29.	27.	NA	NA	27.	24.
74704	26.	27.	26.	26.	NA	NA	27.	25.
74708	26.	26.	27.	26.	NA	NA	25.	26.
74709	25.	25.	25.	26.	NA	NA	26.	26.
74712	26.	28.	26.	26.	NA	NA	26.	26.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 12

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74715	24.	25.	24.	24.	NA	NA	24.	22.
74722	26.	25.	26.	25.	NA	NA	26.	24.
74729	25.	25.	26.	25.	NA	NA	25.	25.
74733	25.	25.	26.	25.	NA	NA	25.	26.
MEAN	26.	27.	27.	26.			26.	26.
S.D.	2.3	2.4	2.3	2.4			2.6	2.8
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 13

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74606	27.	28.	28.	27.	NA	NA	27.	27.
74607	27.	27.	28.	27.	NA	NA	27.	27.
74608	25.	27.	26.	27.	NA	NA	25.	23.
74611	25.	26.	26.	26.	NA	NA	26.	27.
74615	29.	28.	28.	27.	NA	NA	27.	28.
74617	27.	27.	27.	26.	NA	NA	25.	23.
74618	27.	27.	27.	26.	NA	NA	27.	26.
74619	24.	25.	25.	26.	NA	NA	27.	25.
74622	26.	24.	28.	24.	NA	NA	28.	26.
74638	26.	26.	25.	26.	NA	NA	27.	24.
74639	27.	27.	27.	25.	NA	NA	27.	25.
74650	27.	28.	25.	25.	NA	NA	26.	27.
74661	25.	25.	24.	24.	NA	NA	24.	25.
74668	27.	25.	27.	27.	NA	NA	27.	24.
74670	28.	29.	26.	27.	NA	NA	26.	26.
74674	26.	26.	26.	26.	NA	NA	27.	28.
74675	23.	21.	23.	23.	NA	NA	25.	23.
74679	29.	28.	29.	27.	NA	NA	26.	25.
74683	23.	30.	27.	28.	NA	NA	28.	30.
74684	25.	26.	25.	25.	NA	NA	25.	25.
74691	25.	25.	24.	25.	NA	NA	24.	24.
74693	28.	27.	27.	27.	NA	NA	25.	25.
74699	30.	30.	30.	29.	NA	NA	29.	29.
74706	30.	26.	29.	28.	NA	NA	27.	27.
74710	25.	24.	25.	23.	NA	NA	26.	26.
74717	27.	26.	25.	26.	NA	NA	23.	23.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 14

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74719	26.	28.	27.	27.	NA	NA	28.	29.
74727	27.	27.	26.	26.	NA	NA	25.	25.
74734	27.	28.	27.	27.	NA	NA	28.	25.
74735	29.	30.	31.	31.	NA	NA	31.	29.
MEAN	27.	27.	27.	26.			26.	26.
S.D.	1.8	2.0	1.8	1.7			1.6	2.0
N	30	30	30	30			30	30

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 15

DAY	MALE GROUP:				2500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74624	24.	25.	23.	24.	NA	NA	24.	22.
74628	24.	25.	24.	26.	NA	NA	25.	26.
74629	23.	23.	23.	23.	NA	NA	24.	23.
74631	27.	26.	26.	26.	NA	NA	25.	25.
74635	25.	25.	26.	25.	NA	NA	27.	26.
74640	26.	27.	28.	27.	NA	NA	25.	27.
74643	26.	25.	26.	26.	NA	NA	28.	27.
74646	28.	28.	29.	30.	NA	NA	28.	28.
74647	28.	28.	28.	27.	NA	NA	29.	28.
74649	25.	26.	24.	26.	NA	NA	26.	26.
74652	25.	23.	24.	25.	NA	NA	25.	25.
74653	27.	27.	24.	24.	NA	NA	26.	26.
74658	24.	24.	24.	23.	NA	NA	25.	23.
74659	24.	24.	25.	25.	NA	NA	24.	25.
74663	24.	23.	24.	23.	NA	NA	22.	22.
74680	25.	25.	26.	26.	NA	NA	26.	24.
74688	28.	31.	29.	29.	NA	NA	29.	28.
74692	24.	24.	22.	22.	NA	NA	24.	22.
74695	29.	32.	31.	27.	NA	NA	29.	26.
74697	27.	28.	28.	27.	NA	NA	26.	27.
74702	25.	26.	24.	22.	NA	NA	25.	25.
74703	25.	24.	22.	24.	NA	NA	24.	23.
74705	26.	27.	25.	24.	NA	NA	25.	24.
74713	26.	27.	26.	26.	NA	NA	27.	25.
74718	28.	28.	29.	27.	NA	NA	27.	27.
74720	26.	27.	27.	27.	NA	NA	27.	25.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	2500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74723	24.	26.	25.	25.	NA	NA	25.	26.
74725	24.	26.	24.	25.	NA	NA	26.	23.
74726	25.	27.	27.	28.	NA	NA	28.	26.
74728	30.	30.	30.	30.	NA	NA	31.	30.
MEAN	26.	26.	26.	26.			26.	25.
S.D.	1.8	2.2	2.4	2.1			2.0	2.0
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 17

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	0 PPM
ANIMAL							
74602	25.	27.	27.	25.		SCHEDULED EUTH DAY	128
74603	23.	24.	24.	21.		SCHEDULED EUTH DAY	128
74610	27.	27.	26.	23.	22.	SCHEDULED EUTH DAY	133
74614	27.	27.	26.	22.	22.	SCHEDULED EUTH DAY	133
74616	25.	28.	29.	23.		SCHEDULED EUTH DAY	132
74620	28.	29.	28.	25.	25.	SCHEDULED EUTH DAY	133
74627	29.	31.	30.	27.		SCHEDULED EUTH DAY	129
74630	26.	27.	27.	25.	23.	SCHEDULED EUTH DAY	133
74632	29.	25.	28.	27.		SCHEDULED EUTH DAY	132
74633	30.	28.	27.	26.	25.	SCHEDULED EUTH DAY	133
74636	24.	24.	24.	24.		SCHEDULED EUTH DAY	129
74644	25.	27.	25.	22.		SCHEDULED EUTH DAY	128
74645	26.	27.	27.	25.		SCHEDULED EUTH DAY	132
74648	29.	30.	28.	24.		SCHEDULED EUTH DAY	132
74656	27.	30.	29.	26.		SCHEDULED EUTH DAY	129
74660	27.	27.	27.	25.	24.	SCHEDULED EUTH DAY	133
74664	16.	19.	21.	18.		SCHEDULED EUTH DAY	128
74665	29.	28.	27.	25.		SCHEDULED EUTH DAY	129
74669	23.	25.	25.	20.		SCHEDULED EUTH DAY	129
74677	30.	31.	32.	29.		SCHEDULED EUTH DAY	132
74681	29.	30.	28.	25.		SCHEDULED EUTH DAY	128
74682	28.	27.	27.	23.		SCHEDULED EUTH DAY	128
74686	28.	31.	29.	23.		SCHEDULED EUTH DAY	128
74696	27.	29.	28.	26.		SCHEDULED EUTH DAY	132
74698	25.	35.	35.	28.		SCHEDULED EUTH DAY	129
74700	29.	25.	25.	22.		SCHEDULED EUTH DAY	128

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 18

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	0 PPM
ANIMAL							
74701	20.	27.	27.	26.		SCHEDULED EUTH DAY	129
74707	29.	29.	28.	26.		SCHEDULED EUTH DAY	132
74711	27.	27.	27.	25.		SCHEDULED EUTH DAY	132
74724	29.	29.	27.	26.	23.	SCHEDULED EUTH DAY	133
MEAN	27.	28.	27.	24.	23.		
S.D.	3.1	2.9	2.5	2.4	1.3		
N	30	30	30	30	7		

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 19

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	500 PPM
ANIMAL							
74601	25.	25.	22.	20.		SCHEDULED EUTH DAY	128
74604	27.	28.	28.	25.	23.	SCHEDULED EUTH DAY	133
74605	27.	28.	27.	23.	24.	SCHEDULED EUTH DAY	133
74609	29.	30.	29.	26.		SCHEDULED EUTH DAY	132
74612	29.	30.	28.	27.		SCHEDULED EUTH DAY	129
74613	29.	28.	27.	27.		SCHEDULED EUTH DAY	132
74621	23.	24.	21.	32.		SCHEDULED EUTH DAY	128
74625	25.	25.	25.	24.		SCHEDULED EUTH DAY	129
74626	27.	29.	28.	26.		SCHEDULED EUTH DAY	129
74634	28.	29.	29.	27.		SCHEDULED EUTH DAY	128
74641	28.	26.	26.	25.		SCHEDULED EUTH DAY	129
74642	32.	33.	34.	29.	29.	SCHEDULED EUTH DAY	133
74655	26.	28.	26.	22.		SCHEDULED EUTH DAY	132
74662	27.	27.	26.	24.		SCHEDULED EUTH DAY	132
74666	23.	24.	23.	20.		SCHEDULED EUTH DAY	128
74667	31.	32.	31.	26.		SCHEDULED EUTH DAY	128
74671	24.	24.	24.	23.		SCHEDULED EUTH DAY	128
74673	28.	30.	28.	24.		SCHEDULED EUTH DAY	129
74676	30.	29.	29.	26.		SCHEDULED EUTH DAY	132
74685	27.	28.	28.	27.		SCHEDULED EUTH DAY	132
74689	23.	25.	24.	23.		SCHEDULED EUTH DAY	132
74690	27.	29.	28.	26.		SCHEDULED EUTH DAY	128
74704	25.	26.	25.	23.	17.	SCHEDULED EUTH DAY	133
74708	26.	25.	26.	23.	22.	SCHEDULED EUTH DAY	133
74709	27.	28.	27.	25.		SCHEDULED EUTH DAY	129
74712	26.	27.	26.	27.		SCHEDULED EUTH DAY	129

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	500 PPM	
ANIMAL							
74715	25.	25.	24.	22.	22.	SCHEDULED EUTH DAY	133
74722	25.	25.	24.	24.	23.	SCHEDULED EUTH DAY	133
74729	26.	28.	26.	23.		SCHEDULED EUTH DAY	129
74733	27.	28.	27.	26.	23.	SCHEDULED EUTH DAY	133
MEAN	27.	27.	27.	25.	23.		
S.D.	2.2	2.3	2.6	2.5	3.3		
N	30	30	30	30	8		

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SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 21

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	1000 PPM			
ANIMAL										
74606	26.	26.	26.	24.	24.	SCHEDULED	EUTH DAY	133		
74607	27.	29.	28.	24.		SCHEDULED	EUTH DAY	128		
74608	27.	28.	28.	23.		SCHEDULED	EUTH DAY	132		
74611	28.	28.	25.	24.		SCHEDULED	EUTH DAY	129		
74615	28.	28.	28.	27.		SCHEDULED	EUTH DAY	128		
74617	25.	27.	25.	24.		SCHEDULED	EUTH DAY	132		
74618	28.	30.	27.	22.		SCHEDULED	EUTH DAY	129		
74619	29.	29.	26.	21.	23.	SCHEDULED	EUTH DAY	133		
74622	27.	27.	29.	23.		SCHEDULED	EUTH DAY	129		
74638	27.	28.	27.	21.	24.	SCHEDULED	EUTH DAY	133		
74639	25.	25.	24.	24.		SCHEDULED	EUTH DAY	132		
74650	28.	29.	26.	24.	25.	SCHEDULED	EUTH DAY	133		
74661	26.	26.	25.	23.		SCHEDULED	EUTH DAY	129		
74668	25.	29.	27.	24.	23.	SCHEDULED	EUTH DAY	133		
74670	27.	28.	27.	26.		SCHEDULED	EUTH DAY	129		
74674	27.	27.	26.	22.		SCHEDULED	EUTH DAY	132		
74675	24.	25.	24.	22.		SCHEDULED	EUTH DAY	128		
74679	25.	26.	25.	23.		SCHEDULED	EUTH DAY	128		
74683	26.	29.	27.	26.		SCHEDULED	EUTH DAY	128		
74684	26.	27.	25.	23.		SCHEDULED	EUTH DAY	128		
74691	24.	23.	24.	23.	23.	SCHEDULED	EUTH DAY	133		
74693	26.	29.	27.	25.		SCHEDULED	EUTH DAY	132		
74699	28.	28.	28.	27.	27.	SCHEDULED	EUTH DAY	133		
74706	28.	28.	28.	26.		SCHEDULED	EUTH DAY	132		
74710	23.	21.	25.	24.		SCHEDULED	EUTH DAY	129		
74717	25.	23.	23.	23.		SCHEDULED	EUTH DAY	129		

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SPONSOR:ACC

TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 22

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	1000 PPM
ANIMAL						
74719	28.	29.	27.	24.	SCHEDULED EUTH DAY	132
74727	25.	26.	26.	24.	SCHEDULED EUTH DAY	132
74734	27.	26.	26.	24.	SCHEDULED EUTH DAY	128
74735	33.	32.	29.	29.	SCHEDULED EUTH DAY	128
MEAN	27.	27.	26.	24.	24.	
S.D.	1.9	2.3	1.6	1.8	1.5	
N	30	30	30	30	7	

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TABLE 141 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 23

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	2500 PPM
ANIMAL							
74624	24.	24.	23.	22.		SCHEDULED EUTH DAY	128
74628	26.	26.	26.	25.		SCHEDULED EUTH DAY	132
74629	24.	24.	22.	21.		SCHEDULED EUTH DAY	129
74631	26.	27.	24.	23.		SCHEDULED EUTH DAY	129
74635	26.	27.	25.	24.	24.	SCHEDULED EUTH DAY	133
74640	27.	27.	25.	24.		SCHEDULED EUTH DAY	128
74643	26.	28.	26.	23.		SCHEDULED EUTH DAY	132
74646	27.	27.	28.	26.		SCHEDULED EUTH DAY	129
74647	29.	30.	28.	25.		SCHEDULED EUTH DAY	132
74649	26.	28.	26.	24.	21.	SCHEDULED EUTH DAY	133
74652	25.	25.	26.	23.		SCHEDULED EUTH DAY	129
74653	25.	25.	25.	24.		SCHEDULED EUTH DAY	132
74658	23.	24.	23.	21.		SCHEDULED EUTH DAY	128
74659	27.	25.	24.	23.	23.	SCHEDULED EUTH DAY	133
74663	24.	24.	24.	21.		SCHEDULED EUTH DAY	128
74680	27.	28.	25.	24.	23.	SCHEDULED EUTH DAY	133
74688	27.	28.	28.	25.		SCHEDULED EUTH DAY	128
74692	22.	24.	22.	21.		SCHEDULED EUTH DAY	129
74695	29.	31.	31.	28.		SCHEDULED EUTH DAY	132
74697	26.	28.	25.	23.	22.	SCHEDULED EUTH DAY	133
74702	24.	23.	24.	23.		SCHEDULED EUTH DAY	129
74703	24.	26.	25.	23.	20.	SCHEDULED EUTH DAY	133
74705	22.	22.	26.	23.	20.	SCHEDULED EUTH DAY	133
74713	27.	28.	27.	24.		SCHEDULED EUTH DAY	128
74718	28.	29.	29.	27.	25.	SCHEDULED EUTH DAY	133
74720	25.	26.	24.	23.		SCHEDULED EUTH DAY	129

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PROJECT NO.:WIL-186013M  
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TABLE 141 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	2500 PPM
ANIMAL						
74723	25.	26.	26.	23.	SCHEDULED EUTH DAY	129
74725	24.	25.	25.	32.	SCHEDULED EUTH DAY	132
74726	27.	28.	28.	25.	SCHEDULED EUTH DAY	132
74728	27.	30.	31.	30.	SCHEDULED EUTH DAY	128
MEAN	26.	26.	26.	24.	22.	
S.D.	1.8	2.2	2.3	2.5	1.8	
N	30	30	30	30	8	

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TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	FEMALE GROUP:							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74737	18.	17.	NA	18.	20.	19.	21.	21.
74740	16.	20.	NA	18.	18.	19.	19.	19.
74745	21.	20.	NA	22.	25.	24.	23.	23.
74749	16.	19.	NA	20.	22.	21.	22.	20.
74756	18.	21.	NA	21.	21.	22.	22.	21.
74757	13.	14.	NA	18.	18.	19.	19.	19.
74759	18.	20.	NA	17.	18.	18.	18.	18.
74764	4.	22.	NA	20.	20.	22.	23.	23.
74767	17.	17.	NA	19.	20.	20.	21.	22.
74772	14.	18.	NA	20.	21.	21.	22.	22.
74773	13.	21.	NA	21.	23.	23.	23.	22.
74774	18.	19.	NA	19.	22.	21.	22.	22.
74779	12.	19.	NA	20.	21.	20.	21.	21.
74789	17.	16.	NA	17.	18.	18.	19.	19.
74794	18.	18.	NA	19.	21.	21.	22.	22.
74804	18.	18.	NA	19.	20.	19.	19.	19.
74808	17.	20.	NA	20.	22.	22.	22.	20.
74810	22.	21.	NA	21.	20.	21.	22.	22.
74815	19.	19.	NA	19.	19.	20.	21.	21.
74826	15.	17.	NA	18.	19.	21.	20.	21.
74828	17.	19.	NA	19.	20.	21.	23.	22.
74829	18.	19.	NA	21.	21.	23.	22.	22.
74840	14.	19.	NA	19.	19.	19.	19.	19.
74841	16.	16.	NA	17.	17.	18.	18.	16.
74842	15.	17.	NA	18.	20.	20.	22.	22.
74844	20.	20.	NA	21.	21.	22.	22.	23.

NA = NOT APPLICABLE

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 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 2

DAY	FEMALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74845	18.	21.	NA	21.	21.	22.	24.	23.
74854	17.	19.	NA	19.	21.	21.	22.	22.
74864	19.	22.	NA	19.	21.	22.	23.	21.
74867	19.	20.	NA	20.	20.	21.	22.	22.
MEAN	17.	19.		19.	20.	21.	21.	21.
S.D.	3.3	1.9		1.3	1.7	1.6	1.6	1.7
N	30	30		30	30	30	30	30

NA = NOT APPLICABLE

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TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	FEMALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74742	17.	18.	20.	19.	20.	22.	21.	20.
74746	18.	18.	19.	19.	18.	20.	20.	20.
74753	15.	18.	20.	20.	21.	21.	22.	22.
74761	9.	20.	17.	20.	19.	20.	20.	20.
74762	15.	18.	17.	16.	18.	18.	17.	18.
74765	17.	17.	16.	16.	18.	17.	19.	18.
74782	21.	20.	20.	20.	21.	22.	21.	19.
74785	17.	18.	20.	21.	22.	23.	23.	22.
74790	11.	18.	18.	18.	19.	19.	19.	19.
74796	18.	19.	21.	22.	23.	24.	24.	23.
74797	15.	18.	20.	25.	21.	21.	19.	19.
74798	16.	19.	19.	20.	22.	25.	20.	23.
74802	19.	20.	20.	20.	19.	20.	22.	22.
74805	20.	17.	18.	19.	22.	22.	21.	21.
74809	13.	19.	16.	17.	18.	19.	18.	18.
74812	19.	17.	17.	21.	21.	21.	21.	22.
74816	17.	18.	18.	20.	20.	20.	20.	19.
74819	19.	19.	19.	21.	22.	21.	21.	21.
74823	15.	19.	20.	22.	22.	23.	22.	22.
74824	17.	18.	17.	18.	18.	19.	18.	20.
74835	15.	15.	17.	16.	17.	17.	19.	19.
74838	17.	20.	19.	23.	20.	20.	22.	22.
74839	19.	21.	20.	20.	20.	21.	21.	21.
74846	16.	19.	18.	19.	19.	22.	22.	22.
74856	21.	18.	18.	18.	19.	20.	21.	20.
74859	21.	20.	19.	20.	23.	22.	20.	19.

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TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 4

DAY	FEMALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74861	16.	18.	16.	19.	20.	20.	21.	19.
74863	20.	19.	20.	21.	22.	23.	23.	22.
74869	20.	17.	18.	18.	19.	19.	19.	19.
74873	20.	19.	21.	23.	28.	21.	23.	25.
MEAN	17.	18.	19.	20.	20.	21.	21.	21.
S.D.	2.9	1.2	1.5	2.1	2.2	1.9	1.7	1.8
N	30	30	30	30	30	30	30	30

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	FEMALE GROUP: 1000 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74738	19.	19.	21.	20.	19.	19.	18.	18.
74739	15.	19.	19.	18.	18.	19.	20.	20.
74743	17.	19.	19.	19.	20.	20.	20.	19.
74744	14.	16.	16.	16.	17.	18.	18.	17.
74748	16.	19.	19.	18.	20.	19.	20.	20.
74752	19.	19.	19.	21.	22.	24.	23.	24.
74766	13.	18.	17.	17.	21.	19.	19.	19.
74777	18.	19.	20.	20.	22.	22.	22.	22.
74780	13.	18.	17.	16.	18.	19.	21.	20.
74791	14.	17.	17.	17.	17.	17.	21.	18.
74793	19.	18.	19.	21.	20.	21.	22.	22.
74795	22.	17.	18.	20.	23.	23.	21.	20.
74799	19.	18.	20.	19.	21.	21.	21.	21.
74801	17.	20.	20.	21.	20.	20.	20.	20.
74806	12.	15.	15.	17.	17.	17.	19.	19.
74818	20.	19.	20.	20.	25.	21.	22.	22.
74820	18.	18.	19.	19.	18.	19.	21.	20.
74821	19.	17.	19.	20.	23.	23.	23.	22.
74830	16.	18.	18.	18.	19.	20.	20.	19.
74831	15.	21.	21.	21.	22.	23.	23.	21.
74834	21.	19.	19.	19.	20.	23.	21.	20.
74847	16.	16.	17.	17.	17.	19.	19.	20.
74848	21.	17.	19.	19.	19.	20.	20.	21.
74849	12.	17.	17.	18.	19.	20.	21.	22.
74850	15.	19.	19.	19.	18.	18.	20.	20.
74855	19.	20.	20.	18.	21.	20.	18.	20.

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TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 6

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74858	19.	20.	17.	21.	22.	21.	21.	21.
74865	20.	20.	20.	21.	23.	23.	24.	24.
74868	17.	22.	21.	21.	22.	22.	23.	24.
74871	17.	18.	18.	18.	18.	19.	21.	20.
MEAN	17.	18.	19.	19.	20.	20.	21.	21.
S.D.	2.8	1.5	1.5	1.6	2.2	1.9	1.6	1.7
N	30	30	30	30	30	30	30	30

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SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 7

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74747	11.	16.	16.	18.	19.	19.	20.	19.
74750	16.	18.	17.	18.	18.	20.	20.	20.
74751	18.	20.	19.	19.	20.	20.	21.	19.
74754	20.	20.	18.	19.	19.	20.	20.	19.
74755	19.	20.	20.	20.	20.	20.	21.	21.
74768	17.	16.	20.	19.	20.	20.	20.	21.
74769	16.	24.	18.	21.	23.	24.	21.	23.
74770	16.	21.	19.	19.	20.	22.	22.	22.
74781	18.	19.	18.	19.	20.	19.	20.	20.
74784	17.	16.	17.	17.	18.	19.	19.	17.
74786	17.	18.	21.	20.	19.	18.	23.	24.
74787	19.	18.	18.	19.	23.	21.	20.	21.
74792	20.	19.	20.	19.	18.	19.	18.	19.
74800	20.	19.	19.	19.	19.	21.	20.	20.
74803	18.	17.	21.	21.	21.	22.	23.	23.
74807	17.	17.	18.	18.	21.	19.	19.	18.
74811	18.	18.	19.	19.	20.	21.	21.	20.
74813	17.	18.	16.	19.	20.	20.	19.	13.
74817	16.	17.	17.	19.	19.	18.	20.	18.
74822	17.	21.	19.	19.	21.	22.	22.	22.
74827	14.	20.	20.	18.	20.	21.	22.	21.
74832	19.	17.	18.	18.	18.	19.	19.	18.
74833	17.	17.	17.	18.	20.	18.	20.	21.
74836	17.	17.	18.	21.	22.	21.	22.	21.
74853	17.	20.	19.	19.	20.	21.	22.	20.
74857	19.	18.	17.	20.	20.	19.	21.	20.

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TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74860	14.	18.	20.	17.	18.	18.	20.	19.
74862	16.	16.	18.	17.	17.	16.	18.	18.
74866	18.	18.	21.	21.	22.	24.	24.	23.
74870	23.	22.	24.	23.	24.	24.	24.	23.
MEAN	17.	19.	19.	19.	20.	20.	21.	20.
S.D.	2.2	1.9	1.7	1.3	1.7	1.9	1.6	2.2
N	30	30	30	30	30	30	30	30

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TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 9

DAY	FEMALE GROUP:							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74737	20.	19.	19.	19.	NA	NA	NA	NA
74740	19.	20.	19.	19.	NA	NA	NA	NA
74745	23.	25.	23.	22.	NA	NA	24.	20.
74749	21.	20.	19.	19.	NA	NA	NA	NA
74756	21.	23.	22.	22.	NA	NA	20.	21.
74757	19.	19.	19.	19.	NA	NA	NA	NA
74759	17.	16.	17.	17.	NA	NA	NA	NA
74764	21.	22.	20.	20.	NA	NA	NA	NA
74767	21.	23.	23.	19.	NA	NA	NA	NA
74772	20.	21.	20.	20.	NA	NA	NA	NA
74773	21.	21.	22.	21.	NA	NA	NA	NA
74774	21.	22.	21.	21.	NA	NA	NA	NA
74779	21.	20.	20.	20.	NA	NA	NA	NA
74789	19.	20.	19.	19.	NA	NA	NA	NA
74794	21.	23.	27.	22.	NA	NA	NA	NA
74804	19.	19.	19.	19.	NA	NA	NA	NA
74808	23.	23.	22.	22.	NA	NA	NA	NA
74810	22.	20.	20.	20.	NA	NA	NA	NA
74815	20.	21.	20.	17.	NA	NA	21.	19.
74826	22.	37.	19.	22.	NA	NA	NA	NA
74828	22.	20.	21.	18.	NA	NA	NA	NA
74829	22.	21.	21.	20.	NA	NA	NA	NA
74840	19.	20.	19.	17.	NA	NA	NA	NA
74841	16.	17.	17.	17.	NA	NA	NA	NA
74842	20.	22.	20.	20.	NA	NA	20.	17.
74844	22.	21.	21.	21.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 10

DAY	FEMALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74845	23.	23.	23.	22.	NA	NA	NA	NA
74854	21.	21.	20.	20.	NA	NA	NA	NA
74864	22.	22.	21.	23.	NA	NA	NA	NA
74867	21.	20.	19.	21.	NA	NA	NA	NA
MEAN	21.	21.	20.	20.			21.	19.
S.D.	1.7	3.5	2.0	1.7			1.9	1.7
N	30	30	30	30			4	4

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 11

DAY	FEMALE GROUP:							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74742	19.	20.	20.	20.	NA	NA	NA	NA
74746	20.	19.	20.	20.	NA	NA	NA	NA
74753	21.	21.	21.	21.	NA	NA	NA	NA
74761	20.	19.	19.	19.	NA	NA	NA	NA
74762	18.	18.	19.	19.	NA	NA	NA	NA
74765	18.	18.	18.	18.	NA	NA	NA	NA
74782	20.	22.	21.	22.	NA	NA	NA	NA
74785	20.	21.	21.	20.	NA	NA	NA	NA
74790	19.	20.	19.	19.	NA	NA	NA	NA
74796	23.	24.	25.	23.	NA	NA	NA	NA
74797	21.	19.	21.	19.	NA	NA	NA	NA
74798	22.	20.	20.	21.	NA	NA	NA	NA
74802	22.	21.	21.	22.	NA	NA	NA	NA
74805	20.	19.	20.	19.	NA	NA	NA	EUTH IN EXTREMIS DAY 94
74809	17.	19.	17.	17.	NA	NA	NA	NA
74812	21.	20.	20.	20.	NA	NA	NA	NA
74816	20.	20.	20.	19.	NA	NA	23.	NA
74819	21.	22.	21.	20.	NA	NA	NA	NA
74823	23.	23.	20.	20.	NA	NA	NA	NA
74824	19.	18.	18.	19.	NA	NA	NA	NA
74835	18.	18.	17.	17.	NA	NA	NA	NA
74838	22.	22.	20.	20.	NA	NA	NA	NA
74839	21.	21.	21.	20.	NA	NA	NA	NA
74846	21.	22.	22.	22.	NA	NA	NA	NA
74856	20.	20.	21.	20.	NA	NA	NA	NA
74859	20.	20.	20.	19.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 12

DAY	FEMALE GROUP: 500 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74861	20.	19.	19.	19.	NA	NA	NA	NA
74863	23.	21.	20.	20.	NA	NA	NA	NA
74869	18.	19.	18.	18.	NA	NA	NA	NA
74873	22.	26.	26.	26.	NA	NA	NA	NA
MEAN	20.	20.	20.	20.			23.	
S.D.	1.6	1.9	1.9	1.8			0.0	
N	30	30	30	30			1	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 13

DAY	FEMALE GROUP:				1000 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74738	19.	19.	19.	20.	NA	NA	NA	NA
74739	19.	20.	20.	19.	NA	NA	NA	NA
74743	19.	19.	21.	19.	NA	NA	NA	NA
74744	18.	18.	18.	18.	NA	NA	NA	NA
74748	21.	20.	21.	20.	NA	NA	NA	NA
74752	22.	24.	23.	24.	NA	NA	NA	NA
74766	19.	19.	18.	17.	NA	NA	NA	NA
74777	20.	22.	23.	21.	NA	NA	NA	NA
74780	20.	21.	21.	19.	NA	NA	NA	NA
74791	19.	20.	19.	20.	NA	NA	NA	NA
74793	21.	22.	21.	22.	NA	NA	NA	NA
74795	22.	23.	22.	24.	NA	NA	NA	NA
74799	22.	20.	21.	21.	NA	NA	NA	NA
74801	20.	19.	20.	20.	NA	NA	NA	NA
74806	20.	19.	19.	19.	NA	NA	NA	NA
74818	21.	21.	20.	18.	NA	NA	18.	19.
74820	19.	20.	20.	20.	NA	NA	NA	NA
74821	23.	22.	22.	22.	NA	NA	NA	NA
74830	20.	21.	19.	20.	NA	NA	22.	NA
74831	22.	23.	22.	22.	NA	NA	NA	NA
74834	20.	21.	20.	20.	NA	NA	NA	NA
74847	20.	20.	19.	19.	NA	NA	NA	NA
74848	18.	20.	18.	19.	NA	NA	NA	NA
74849	22.	21.	20.	21.	NA	NA	NA	NA
74850	20.	18.	20.	19.	NA	NA	NA	NA
74855	24.	23.	22.	22.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 14

DAY	FEMALE GROUP: 1000 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74858	23.	20.	20.	21.	NA	NA	NA	NA
74865	25.	25.	25.	24.	NA	NA	NA	NA
74868	24.	23.	24.	24.	NA	NA	NA	NA
74871	19.	19.	20.	19.	NA	NA	NA	NA
MEAN	21.	21.	21.	20.			20.	19.
S.D.	1.8	1.8	1.7	1.9			2.8	0.0
N	30	30	30	30			2	1

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 15

DAY	FEMALE GROUP:				2500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74747	20.	17.	18.	20.	NA	NA	NA	NA
74750	20.	19.	18.	18.	NA	NA	NA	NA
74751	20.	20.	20.	20.	NA	NA	NA	NA
74754	20.	20.	19.	21.	NA	NA	NA	NA
74755	21.	20.	20.	21.	NA	NA	NA	NA
74768	19.	20.	19.	20.	NA	NA	NA	NA
74769	22.	22.	20.	20.	NA	NA	NA	NA
74770	23.	23.	21.	22.	NA	NA	NA	NA
74781	20.	18.	19.	22.	NA	NA	NA	NA
74784	16.	17.	17.	17.	NA	NA	NA	NA
74786	23.	24.	22.	22.	NA	NA	NA	NA
74787	21.	20.	19.	20.	NA	NA	NA	NA
74792	18.	18.	18.	18.	NA	NA	NA	NA
74800	21.	20.	22.	20.	NA	NA	NA	NA
74803	22.	25.	24.	22.	NA	NA	NA	NA
74807	19.	20.	20.	19.	NA	NA	NA	NA
74811	22.	23.	17.	19.	NA	NA	NA	NA
74813	14.	20.	19.	18.	NA	NA	NA	NA
74817	19.	20.	19.	23.	NA	NA	NA	NA
74822	22.	22.	21.	21.	NA	NA	NA	NA
74827	21.	21.	20.	20.	NA	NA	NA	NA
74832	18.	19.	18.	19.	NA	NA	NA	NA
74833	21.	25.	27.	18.	NA	NA	NA	NA
74836	20.	21.	20.	20.	NA	NA	NA	NA
74853	20.	20.	20.	21.	NA	NA	NA	NA
74857	22.	20.	20.	23.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74860	20.	19.	18.	19.	NA	NA	NA	NA
74862	18.	18.	19.	19.	NA	NA	NA	NA
74866	23.	23.	22.	23.	NA	NA	NA	NA
74870	22.	23.	23.	21.	NA	NA	NA	NA
MEAN	20.	21.	20.	20.				
S.D.	2.0	2.2	2.1	1.6				
N	30	30	30	30				

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 17

DAY	FEMALE GROUP:				0 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74737	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74740	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74745	21.	23.	24.	27.	SCHEDULED EUTH DAY	129
74749	NA	20.	18.	20.	SCHEDULED EUTH DAY	129
74756	21.	22.	21.	23.	SCHEDULED EUTH DAY	129
74757	NA	NA	NA	NA	20. SCHEDULED EUTH DAY	133
74759	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74764	NA	NA	NA	NA	24. SCHEDULED EUTH DAY	133
74767	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74772	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74773	NA	NA	NA	NA	24. SCHEDULED EUTH DAY	133
74774	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74779	20.	20.	18.	20.	19. SCHEDULED EUTH DAY	133
74789	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74794	20.	21.	21.	22.	21. SCHEDULED EUTH DAY	133
74804	NA	NA	NA	NA	19. SCHEDULED EUTH DAY	133
74808	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74810	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74815	19.	20.	21.	23.	SCHEDULED EUTH DAY	132
74826	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74828	21.	21.	17.	21.	SCHEDULED EUTH DAY	129
74829	NA	NA	NA	NA	18. SCHEDULED EUTH DAY	133
74840	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74841	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74842	15.	14.	22.	30.	SCHEDULED EUTH DAY	128
74844	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 18

DAY	FEMALE GROUP: 0 PPM						
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133		
ANIMAL							
74845	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74854	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74864	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74867	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
MEAN	20.	20.	20.	23.	21.		
S.D.	2.1	2.7	2.4	3.5	2.4		
N	7	8	8	8	7		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 19

DAY	FEMALE GROUP:				500 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74742	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74746	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74753	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74761	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74762	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74765	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74782	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74785	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74790	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74796	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74797	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74798	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74802	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74809	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74812	NA	NA	NA	NA	24. SCHEDULED EUTH DAY	133
74816	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74819	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74823	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74824	NA	NA	NA	NA	30. SCHEDULED EUTH DAY	133
74835	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74838	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74839	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74846	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74856	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74859	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74861	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP:	500 PPM
ANIMAL							
74863	NA	NA	NA	NA	23.	SCHEDULED EUTH DAY	133
74869	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74873	20.	20.	18.	20.	19.	SCHEDULED EUTH DAY	133
MEAN	20.	20.	18.	20.	23.		
S.D.	0.0	0.0	0.0	0.0	3.4		
N	1	1	1	1	7		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 21

DAY	FEMALE GROUP:				1000 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74738	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74739	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74743	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74744	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74748	NA	NA	NA	NA	23. SCHEDULED EUTH DAY	133
74752	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74766	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74777	19.	19.	19.	22.	SCHEDULED EUTH DAY	129
74780	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74791	NA	NA	NA	NA	19. SCHEDULED EUTH DAY	133
74793	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74795	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74799	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74801	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74806	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74818	18.	18.	20.	23.	SCHEDULED EUTH DAY	129
74820	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74821	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74830	NA	NA	NA	NA	20. SCHEDULED EUTH DAY	133
74831	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74834	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74847	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74848	NA	NA	NA	NA	19. SCHEDULED EUTH DAY	133
74849	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74850	NA	NA	NA	NA	19. SCHEDULED EUTH DAY	133
74855	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 22

DAY	FEMALE GROUP: 1000 PPM				
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133
ANIMAL					
74858	NA	NA	NA	NA	SCHEDULED EUTH DAY 132
74865	NA	23.	25.	25.	SCHEDULED EUTH DAY 132
74868	NA	NA	NA	NA	SCHEDULED EUTH DAY 128
74871	NA	NA	NA	NA	20. SCHEDULED EUTH DAY 133
MEAN	19.	20.	21.	23.	20.
S.D.	0.7	2.6	3.2	1.5	1.6
N	2	3	3	3	7

NA = NOT APPLICABLE

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DAY	FEMALE GROUP:				2500 PPM	
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74747	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74750	17.	18.	16.	19.	SCHEDULED EUTH DAY	132
74751	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74754	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74755	NA	NA	NA	NA	17. SCHEDULED EUTH DAY	133
74768	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74769	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74770	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74781	NA	NA	24.	22.	SCHEDULED EUTH DAY	132
74784	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74786	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74787	NA	NA	NA	NA	21. SCHEDULED EUTH DAY	133
74792	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74800	NA	20.	20.	19.	SCHEDULED EUTH DAY	132
74803	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74807	NA	NA	NA	NA	18. SCHEDULED EUTH DAY	133
74811	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74813	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74817	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74822	NA	NA	NA	NA	23. SCHEDULED EUTH DAY	133
74827	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74832	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74833	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74836	NA	NA	NA	NA	22. SCHEDULED EUTH DAY	133
74853	NA	NA	NA	NA	SCHEDULED EUTH DAY	129
74857	NA	NA	NA	NA	SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 142 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 2500 PPM	
ANIMAL							
74860	NA	NA	NA	NA	22.	SCHEDULED EUTH DAY	133
74862	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74866	NA	NA	NA	NA	23.	SCHEDULED EUTH DAY	133
74870	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
MEAN	17.	19.	20.	20.	21.		
S.D.	0.0	1.4	4.0	1.7	2.3		
N	1	2	3	3	8		

NA = NOT APPLICABLE

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TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	MALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74602	92.	93.	NA	75.	71.	68.	64.	61.
74603	88.	87.	NA	68.	65.	61.	62.	60.
74610	70.	80.	NA	72.	69.	68.	65.	62.
74614	95.	87.	NA	75.	72.	67.	69.	68.
74616	88.	83.	NA	75.	71.	69.	67.	62.
74620	103.	93.	82.	75.	68.	67.	65.	61.
74627	94.	88.	78.	70.	65.	63.	60.	60.
74630	82.	79.	73.	66.	69.	66.	64.	59.
74632	95.	93.	81.	63.	67.	64.	76.	67.
74633	78.	85.	NA	79.	72.	68.	67.	64.
74636	91.	86.	77.	69.	65.	65.	63.	59.
74644	90.	89.	83.	66.	68.	67.	65.	61.
74645	95.	92.	75.	71.	70.	62.	61.	60.
74648	87.	83.	NA	65.	61.	65.	65.	61.
74656	87.	93.	NA	74.	72.	66.	68.	63.
74660	101.	90.	81.	79.	74.	72.	69.	61.
74664	102.	87.	79.	80.	74.	71.	70.	69.
74665	92.	87.	80.	71.	68.	68.	64.	63.
74669	99.	88.	NA	72.	68.	61.	61.	58.
74677	98.	90.	NA	75.	74.	68.	65.	65.
74681	91.	91.	88.	76.	74.	68.	69.	67.
74682	89.	95.	78.	85.	78.	74.	74.	70.
74686	95.	89.	81.	74.	69.	67.	66.	62.
74696	106.	95.	NA	79.	75.	69.	66.	63.
74698	104.	86.	NA	70.	67.	57.	54.	65.
74700	107.	93.	79.	75.	67.	66.	72.	65.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 2

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	0 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74701	98.	100.	83.	72.	78.	72.	73.	69.
74707	103.	96.	86.	71.	70.	68.	66.	64.
74711	105.	89.	NA	74.	71.	68.	68.	62.
74724	88.	83.	NA	72.	67.	65.	63.	61.
MEAN	94.	89.	80.	73.	70.	67.	66.	63.
S.D.	8.5	4.8	3.8	4.8	3.9	3.5	4.5	3.2
N	30	30	16	30	30	30	30	30

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 3

DAY	MALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74601	103.	89.	76.	72.	66.	67.	61.	63.
74604	88.	86.	78.	72.	63.	62.	55.	56.
74605	95.	90.	81.	71.	70.	68.	69.	66.
74609	101.	98.	83.	77.	71.	70.	67.	61.
74612	108.	92.	84.	75.	73.	67.	67.	65.
74613	101.	87.	75.	72.	65.	63.	60.	62.
74621	91.	92.	83.	74.	57.	68.	66.	63.
74625	97.	81.	74.	65.	66.	62.	64.	62.
74626	106.	92.	85.	78.	70.	69.	66.	62.
74634	103.	89.	78.	72.	71.	67.	67.	64.
74641	109.	95.	86.	76.	74.	68.	68.	65.
74642	109.	97.	93.	81.	78.	70.	62.	66.
74655	100.	92.	80.	77.	71.	66.	66.	67.
74662	84.	82.	75.	72.	68.	67.	65.	64.
74666	98.	93.	79.	67.	66.	64.	65.	63.
74667	86.	88.	77.	72.	69.	67.	65.	63.
74671	99.	90.	75.	75.	73.	68.	68.	64.
74673	99.	84.	80.	71.	72.	63.	60.	59.
74676	93.	96.	84.	82.	77.	74.	72.	67.
74685	107.	88.	92.	75.	74.	71.	71.	68.
74689	95.	85.	77.	71.	67.	64.	65.	62.
74690	96.	85.	80.	69.	71.	69.	66.	65.
74704	94.	93.	82.	75.	78.	70.	68.	69.
74708	89.	84.	87.	75.	74.	67.	66.	64.
74709	99.	87.	81.	71.	73.	67.	68.	67.
74712	95.	94.	79.	62.	68.	60.	60.	57.

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 4

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74715	110.	93.	81.	73.	71.	64.	61.	60.
74722	82.	81.	74.	72.	72.	67.	67.	66.
74729	98.	95.	77.	70.	69.	67.	68.	63.
74733	99.	88.	80.	73.	70.	69.	72.	66.
MEAN	98.	90.	81.	73.	70.	67.	66.	64.
S.D.	7.4	4.7	4.8	4.2	4.4	3.0	3.8	3.0
N	30	30	30	30	30	30	30	30

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TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	MALE GROUP: 1000 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74606	83.	92.	83.	75.	72.	68.	66.	65.
74607	105.	94.	83.	77.	66.	66.	64.	62.
74608	82.	83.	80.	76.	67.	72.	69.	65.
74611	88.	89.	82.	71.	70.	67.	68.	61.
74615	107.	100.	88.	79.	75.	70.	68.	65.
74617	112.	98.	80.	67.	67.	68.	67.	67.
74618	103.	94.	76.	78.	73.	70.	66.	65.
74619	95.	80.	75.	65.	63.	61.	63.	61.
74622	96.	84.	75.	69.	65.	61.	67.	64.
74638	101.	86.	77.	74.	71.	68.	67.	63.
74639	99.	87.	77.	68.	64.	62.	67.	64.
74650	115.	97.	77.	80.	71.	72.	63.	64.
74661	95.	86.	74.	73.	68.	63.	68.	64.
74668	112.	91.	81.	81.	74.	72.	69.	66.
74670	102.	90.	79.	81.	78.	72.	67.	67.
74674	94.	90.	83.	75.	73.	70.	66.	63.
74675	91.	86.	79.	71.	67.	69.	66.	59.
74679	90.	76.	79.	81.	72.	76.	77.	71.
74683	102.	92.	82.	78.	74.	68.	66.	66.
74684	89.	83.	71.	71.	72.	68.	65.	64.
74691	100.	95.	75.	73.	67.	69.	69.	66.
74693	97.	84.	78.	70.	65.	63.	64.	60.
74699	91.	88.	73.	66.	62.	63.	60.	59.
74706	94.	83.	78.	76.	71.	72.	67.	65.
74710	100.	85.	85.	74.	69.	68.	60.	58.
74717	135.	120.	95.	87.	81.	74.	77.	71.

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	MALE GROUP: 1000 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74719	95.	92.	81.	75.	70.	64.	64.	59.	
74727	101.	99.	82.	78.	76.	70.	71.	63.	
74734	99.	86.	74.	68.	61.	61.	61.	56.	
74735	122.	112.	95.	80.	80.	84.	84.	77.	
MEAN	100.	91.	80.	75.	70.	68.	67.	64.	
S.D.	11.2	9.0	5.6	5.3	5.1	5.0	5.0	4.2	
N	30	30	30	30	30	30	30	30	

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

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DAY	MALE GROUP: 2500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74624	91.	89.	74.	70.	68.	66.	65.	63.
74628	112.	94.	79.	76.	68.	67.	70.	61.
74629	97.	89.	79.	71.	65.	61.	60.	58.
74631	96.	88.	87.	69.	66.	65.	63.	62.
74635	89.	85.	71.	75.	70.	63.	64.	62.
74640	87.	84.	81.	76.	61.	60.	64.	63.
74643	91.	87.	74.	66.	62.	60.	59.	62.
74646	83.	82.	68.	68.	59.	57.	59.	58.
74647	95.	87.	78.	70.	70.	67.	65.	60.
74649	102.	93.	83.	69.	66.	63.	63.	61.
74652	95.	91.	79.	74.	66.	68.	63.	61.
74653	94.	88.	78.	74.	69.	70.	67.	65.
74658	101.	105.	81.	72.	71.	67.	67.	63.
74659	80.	86.	76.	67.	67.	64.	63.	62.
74663	94.	93.	79.	75.	73.	69.	66.	61.
74680	81.	79.	68.	65.	60.	57.	58.	56.
74688	83.	87.	80.	75.	70.	63.	65.	60.
74692	90.	85.	75.	67.	65.	65.	63.	60.
74695	58.	89.	81.	71.	67.	62.	62.	62.
74697	99.	89.	79.	74.	70.	65.	65.	64.
74702	92.	86.	74.	66.	62.	59.	61.	63.
74703	72.	77.	67.	67.	66.	67.	62.	58.
74705	111.	96.	88.	78.	72.	66.	64.	63.
74713	91.	86.	37.	65.	66.	61.	62.	55.
74718	92.	86.	117.	75.	70.	67.	65.	62.
74720	88.	86.	74.	69.	69.	63.	60.	59.

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 8

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	MALE GROUP: 14 TO 21	2500 PPM 21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74723	86.	83.	73.	66.	64.	60.	59.	58.
74725	92.	95.	76.	73.	69.	63.	62.	60.
74726	92.	86.	77.	73.	71.	68.	64.	62.
74728	87.	83.	82.	76.	73.	68.	68.	63.
MEAN	91.	88.	77.	71.	67.	64.	63.	61.
S.D.	10.4	5.4	11.6	3.9	3.8	3.5	2.9	2.4
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

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DAY	MALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74602	60.	60.	57.	55.	NA	NA	57.	51.
74603	58.	58.	56.	53.	NA	NA	50.	49.
74610	59.	60.	58.	55.	NA	NA	54.	56.
74614	65.	59.	60.	56.	NA	NA	54.	52.
74616	59.	59.	55.	52.	NA	NA	52.	51.
74620	59.	58.	58.	55.	NA	NA	53.	49.
74627	55.	54.	54.	52.	NA	NA	48.	46.
74630	57.	55.	55.	54.	NA	NA	50.	44.
74632	65.	61.	58.	57.	NA	NA	57.	63.
74633	63.	60.	58.	56.	NA	NA	56.	53.
74636	62.	58.	60.	56.	NA	NA	54.	54.
74644	59.	56.	55.	52.	NA	NA	51.	50.
74645	55.	56.	52.	54.	NA	NA	51.	50.
74648	59.	59.	56.	56.	NA	NA	53.	55.
74656	61.	59.	57.	54.	NA	NA	53.	51.
74660	58.	58.	55.	52.	NA	NA	53.	50.
74664	63.	63.	61.	55.	NA	NA	50.	50.
74665	61.	60.	57.	53.	NA	NA	52.	49.
74669	57.	58.	58.	55.	NA	NA	53.	50.
74677	62.	61.	59.	58.	NA	NA	56.	51.
74681	64.	56.	55.	51.	NA	NA	54.	53.
74682	75.	70.	65.	62.	NA	NA	59.	56.
74686	59.	57.	58.	56.	NA	NA	54.	50.
74696	60.	58.	55.	54.	NA	NA	50.	50.
74698	62.	64.	59.	55.	NA	NA	55.	54.
74700	67.	89.	62.	56.	NA	NA	57.	55.

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 10

DAY	MALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74701	68.	59.	64.	18.	NA	NA	53.	63.
74707	62.	61.	58.	58.	NA	NA	52.	52.
74711	63.	59.	58.	56.	NA	NA	53.	49.
74724	58.	57.	58.	54.	NA	NA	53.	49.
MEAN	61.	60.	58.	54.			53.	52.
S.D.	4.1	6.2	2.8	7.1			2.5	4.1
N	30	30	30	30			30	30

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 11

DAY	MALE GROUP:				500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74601	59.	56.	56.	54.	NA	NA	51.	47.
74604	53.	56.	53.	53.	NA	NA	51.	47.
74605	63.	60.	61.	56.	NA	NA	50.	51.
74609	59.	59.	56.	56.	NA	NA	55.	53.
74612	59.	60.	57.	54.	NA	NA	51.	51.
74613	58.	56.	54.	55.	NA	NA	52.	54.
74621	61.	63.	63.	59.	NA	NA	55.	59.
74625	56.	55.	53.	52.	NA	NA	49.	47.
74626	62.	58.	57.	55.	NA	NA	54.	48.
74634	63.	55.	57.	57.	NA	NA	53.	53.
74641	61.	60.	59.	57.	NA	NA	51.	50.
74642	67.	67.	66.	62.	NA	NA	62.	57.
74655	62.	59.	59.	52.	NA	NA	51.	48.
74662	65.	69.	65.	58.	NA	NA	54.	51.
74666	61.	58.	53.	51.	NA	NA	49.	47.
74667	57.	56.	55.	53.	NA	NA	50.	42.
74671	62.	60.	57.	53.	NA	NA	53.	50.
74673	59.	55.	55.	51.	NA	NA	48.	52.
74676	66.	66.	60.	53.	NA	NA	49.	55.
74685	64.	62.	60.	56.	NA	NA	54.	54.
74689	61.	59.	57.	53.	NA	NA	49.	49.
74690	65.	64.	66.	60.	NA	NA	56.	51.
74704	66.	66.	62.	60.	NA	NA	58.	54.
74708	63.	60.	60.	56.	NA	NA	54.	54.
74709	64.	63.	60.	59.	NA	NA	55.	54.
74712	57.	59.	53.	51.	NA	NA	49.	50.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

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DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74715	59.	59.	54.	53.	NA	NA	51.	46.
74722	64.	61.	60.	56.	NA	NA	55.	51.
74729	62.	59.	59.	55.	NA	NA	50.	49.
74733	65.	63.	62.	60.	NA	NA	55.	57.
MEAN	61.	60.	58.	55.			52.	51.
S.D.	3.3	3.7	3.8	3.0			3.1	3.7
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

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DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74606	59.	58.	55.	53.	NA	NA	49.	49.
74607	61.	59.	60.	56.	NA	NA	54.	53.
74608	59.	63.	58.	59.	NA	NA	53.	49.
74611	59.	59.	58.	56.	NA	NA	53.	54.
74615	65.	61.	58.	55.	NA	NA	52.	53.
74617	66.	64.	61.	58.	NA	NA	54.	49.
74618	61.	60.	60.	56.	NA	NA	55.	52.
74619	61.	61.	60.	61.	NA	NA	58.	54.
74622	61.	58.	62.	53.	NA	NA	55.	50.
74638	60.	59.	56.	57.	NA	NA	54.	48.
74639	59.	58.	55.	50.	NA	NA	49.	46.
74650	62.	62.	54.	53.	NA	NA	54.	53.
74661	62.	60.	55.	54.	NA	NA	52.	53.
74668	62.	56.	58.	57.	NA	NA	53.	48.
74670	66.	66.	58.	59.	NA	NA	53.	52.
74674	63.	61.	60.	58.	NA	NA	56.	56.
74675	59.	54.	57.	54.	NA	NA	54.	50.
74679	75.	70.	71.	64.	NA	NA	59.	56.
74683	52.	64.	56.	56.	NA	NA	54.	55.
74684	60.	60.	57.	55.	NA	NA	52.	52.
74691	63.	61.	57.	57.	NA	NA	53.	52.
74693	59.	56.	54.	53.	NA	NA	47.	46.
74699	54.	53.	50.	48.	NA	NA	47.	46.
74706	63.	53.	57.	54.	NA	NA	50.	48.
74710	58.	55.	55.	51.	NA	NA	53.	53.
74717	70.	65.	60.	61.	NA	NA	53.	53.

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 14

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	1000 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74719	57.	59.	55.	54.	NA	NA	53.	54.
74727	60.	58.	55.	53.	NA	NA	50.	48.
74734	57.	57.	55.	54.	NA	NA	53.	48.
74735	72.	72.	71.	70.	NA	NA	67.	63.
MEAN	62.	60.	58.	56.			53.	51.
S.D.	4.8	4.4	4.4	4.3			3.7	3.7
N	30	30	30	30			30	30

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 15

DAY	MALE GROUP:				2500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74624	62.	62.	57.	57.	NA	NA	53.	49.
74628	65.	63.	59.	63.	NA	NA	57.	57.
74629	55.	54.	53.	52.	NA	NA	50.	48.
74631	64.	59.	57.	57.	NA	NA	52.	51.
74635	58.	58.	58.	54.	NA	NA	53.	51.
74640	61.	62.	61.	58.	NA	NA	51.	54.
74643	59.	54.	53.	53.	NA	NA	56.	52.
74646	58.	56.	55.	55.	NA	NA	47.	47.
74647	59.	56.	54.	52.	NA	NA	51.	48.
74649	59.	59.	53.	56.	NA	NA	51.	50.
74652	59.	53.	53.	53.	NA	NA	50.	51.
74653	62.	61.	53.	52.	NA	NA	53.	53.
74658	61.	59.	59.	55.	NA	NA	55.	51.
74659	58.	56.	57.	56.	NA	NA	50.	53.
74663	62.	57.	59.	55.	NA	NA	52.	51.
74680	52.	51.	51.	49.	NA	NA	47.	45.
74688	56.	59.	54.	53.	NA	NA	49.	47.
74692	60.	57.	52.	52.	NA	NA	53.	48.
74695	59.	61.	57.	49.	NA	NA	50.	45.
74697	61.	62.	60.	56.	NA	NA	52.	54.
74702	60.	59.	54.	49.	NA	NA	53.	51.
74703	57.	53.	48.	51.	NA	NA	48.	46.
74705	60.	59.	53.	52.	NA	NA	49.	47.
74713	53.	53.	50.	48.	NA	NA	46.	43.
74718	60.	58.	58.	53.	NA	NA	49.	49.
74720	57.	57.	55.	54.	NA	NA	50.	46.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	MALE GROUP: 70 TO 77	2500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74723	51.	55.	51.	49.	NA	NA	47.	48.
74725	56.	58.	53.	54.	NA	NA	52.	48.
74726	58.	63.	57.	58.	NA	NA	52.	49.
74728	62.	59.	57.	55.	NA	NA	52.	50.
MEAN	59.	58.	55.	54.			51.	49.
S.D.	3.3	3.2	3.2	3.3			2.6	3.1
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 143 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 17

DAY	MALE GROUP:				0 PPM
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	
ANIMAL					
74602	51.	52.	52.	48.	SCHEDULED EUTH DAY 128
74603	51.	52.	51.	46.	SCHEDULED EUTH DAY 128
74610	56.	55.	52.	47.	44. SCHEDULED EUTH DAY 133
74614	54.	52.	50.	43.	43. SCHEDULED EUTH DAY 133
74616	46.	50.	51.	41.	SCHEDULED EUTH DAY 132
74620	53.	54.	51.	46.	45. SCHEDULED EUTH DAY 133
74627	50.	51.	49.	44.	SCHEDULED EUTH DAY 129
74630	45.	46.	46.	42.	39. SCHEDULED EUTH DAY 133
74632	58.	51.	56.	54.	SCHEDULED EUTH DAY 132
74633	55.	51.	49.	47.	45. SCHEDULED EUTH DAY 133
74636	52.	52.	51.	50.	SCHEDULED EUTH DAY 129
74644	48.	51.	47.	41.	SCHEDULED EUTH DAY 128
74645	50.	50.	49.	45.	SCHEDULED EUTH DAY 132
74648	53.	53.	48.	42.	SCHEDULED EUTH DAY 132
74656	51.	55.	52.	46.	SCHEDULED EUTH DAY 129
74660	51.	50.	49.	46.	43. SCHEDULED EUTH DAY 133
74664	37.	47.	49.	42.	SCHEDULED EUTH DAY 128
74665	51.	49.	46.	43.	SCHEDULED EUTH DAY 129
74669	50.	53.	51.	42.	SCHEDULED EUTH DAY 129
74677	56.	55.	55.	49.	SCHEDULED EUTH DAY 132
74681	51.	52.	48.	43.	SCHEDULED EUTH DAY 128
74682	61.	59.	57.	48.	SCHEDULED EUTH DAY 128
74686	52.	56.	51.	42.	SCHEDULED EUTH DAY 128
74696	49.	51.	49.	45.	SCHEDULED EUTH DAY 132
74698	40.	56.	53.	45.	SCHEDULED EUTH DAY 129
74700	66.	56.	55.	48.	SCHEDULED EUTH DAY 128

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 18

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	0 PPM
ANIMAL							
74701	53.	65.	62.	59.		SCHEDULED EUTH DAY	129
74707	52.	52.	49.	45.		SCHEDULED EUTH DAY	132
74711	51.	51.	50.	46.		SCHEDULED EUTH DAY	132
74724	51.	51.	48.	46.	41.	SCHEDULED EUTH DAY	133
MEAN	51.	53.	51.	46.	43.		
S.D.	5.4	3.6	3.4	3.9	2.2		
N	30	30	30	30	7		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 19

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	500 PPM		
ANIMAL									
74601	52.	52.	46.	42.		SCHEDULED	EUTH DAY	128	
74604	52.	53.	52.	46.	42.	SCHEDULED	EUTH DAY	133	
74605	53.	53.	50.	43.	45.	SCHEDULED	EUTH DAY	133	
74609	53.	54.	51.	47.		SCHEDULED	EUTH DAY	132	
74612	49.	49.	45.	44.		SCHEDULED	EUTH DAY	129	
74613	49.	47.	45.	44.		SCHEDULED	EUTH DAY	132	
74621	58.	59.	52.	78.		SCHEDULED	EUTH DAY	128	
74625	50.	49.	49.	46.		SCHEDULED	EUTH DAY	129	
74626	48.	52.	49.	46.		SCHEDULED	EUTH DAY	129	
74634	52.	53.	53.	49.		SCHEDULED	EUTH DAY	128	
74641	52.	48.	48.	45.		SCHEDULED	EUTH DAY	129	
74642	60.	61.	63.	53.	51.	SCHEDULED	EUTH DAY	133	
74655	51.	53.	49.	42.		SCHEDULED	EUTH DAY	132	
74662	56.	55.	52.	48.		SCHEDULED	EUTH DAY	132	
74666	49.	50.	47.	41.		SCHEDULED	EUTH DAY	128	
74667	52.	52.	49.	42.		SCHEDULED	EUTH DAY	128	
74671	53.	52.	51.	48.		SCHEDULED	EUTH DAY	128	
74673	48.	51.	47.	41.		SCHEDULED	EUTH DAY	129	
74676	53.	51.	50.	45.		SCHEDULED	EUTH DAY	132	
74685	52.	52.	52.	50.		SCHEDULED	EUTH DAY	132	
74689	49.	52.	49.	47.		SCHEDULED	EUTH DAY	132	
74690	56.	57.	54.	51.		SCHEDULED	EUTH DAY	128	
74704	54.	55.	53.	49.	36.	SCHEDULED	EUTH DAY	133	
74708	53.	50.	53.	47.	44.	SCHEDULED	EUTH DAY	133	
74709	55.	57.	54.	49.		SCHEDULED	EUTH DAY	129	
74712	49.	51.	48.	49.		SCHEDULED	EUTH DAY	129	

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133		
ANIMAL							
74715	51.	50.	48.	44.	44.	SCHEDULED EUTH DAY	133
74722	52.	51.	48.	48.	45.	SCHEDULED EUTH DAY	133
74729	50.	53.	48.	43.		SCHEDULED EUTH DAY	129
74733	58.	58.	55.	52.	47.	SCHEDULED EUTH DAY	133
MEAN	52.	53.	50.	47.	44.		
S.D.	3.1	3.2	3.6	6.6	4.3		
N	30	30	30	30	8		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 21

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	1000 PPM			
ANIMAL										
74606	47.	46.	45.	42.	41.	SCHEDULED	EUTH DAY	133		
74607	53.	55.	53.	46.		SCHEDULED	EUTH DAY	128		
74608	56.	56.	55.	46.		SCHEDULED	EUTH DAY	132		
74611	55.	53.	49.	46.		SCHEDULED	EUTH DAY	129		
74615	53.	52.	51.	50.		SCHEDULED	EUTH DAY	128		
74617	53.	55.	50.	48.		SCHEDULED	EUTH DAY	132		
74618	55.	57.	51.	42.		SCHEDULED	EUTH DAY	129		
74619	61.	59.	54.	45.	48.	SCHEDULED	EUTH DAY	133		
74622	52.	51.	53.	43.		SCHEDULED	EUTH DAY	129		
74638	53.	53.	51.	41.	47.	SCHEDULED	EUTH DAY	133		
74639	46.	46.	43.	42.		SCHEDULED	EUTH DAY	132		
74650	55.	55.	50.	45.	47.	SCHEDULED	EUTH DAY	133		
74661	54.	53.	50.	45.		SCHEDULED	EUTH DAY	129		
74668	49.	54.	49.	44.	41.	SCHEDULED	EUTH DAY	133		
74670	54.	55.	52.	49.		SCHEDULED	EUTH DAY	129		
74674	54.	54.	51.	44.		SCHEDULED	EUTH DAY	132		
74675	50.	52.	49.	45.		SCHEDULED	EUTH DAY	128		
74679	56.	57.	54.	51.		SCHEDULED	EUTH DAY	128		
74683	48.	52.	48.	46.		SCHEDULED	EUTH DAY	128		
74684	53.	54.	49.	46.		SCHEDULED	EUTH DAY	128		
74691	52.	49.	51.	48.	48.	SCHEDULED	EUTH DAY	133		
74693	47.	51.	47.	43.		SCHEDULED	EUTH DAY	132		
74699	44.	44.	44.	41.	41.	SCHEDULED	EUTH DAY	133		
74706	50.	50.	50.	45.		SCHEDULED	EUTH DAY	132		
74710	48.	47.	52.	49.		SCHEDULED	EUTH DAY	129		
74717	56.	52.	51.	50.		SCHEDULED	EUTH DAY	129		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 22

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	1000 PPM
ANIMAL						
74719	51.	52.	48.	43.	SCHEDULED EUTH DAY	132
74727	48.	50.	49.	45.	SCHEDULED EUTH DAY	132
74734	50.	48.	47.	44.	SCHEDULED EUTH DAY	128
74735	69.	66.	58.	58.	SCHEDULED EUTH DAY	128
MEAN	52.	53.	50.	46.	45.	
S.D.	4.8	4.3	3.2	3.6	3.5	
N	30	30	30	30	7	

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 23

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	MALE GROUP:	2500 PPM
ANIMAL							
74624	52.	52.	49.	46.		SCHEDULED EUTH DAY	128
74628	56.	54.	54.	51.		SCHEDULED EUTH DAY	132
74629	50.	49.	45.	43.		SCHEDULED EUTH DAY	129
74631	53.	54.	49.	45.		SCHEDULED EUTH DAY	129
74635	50.	51.	47.	45.	45.	SCHEDULED EUTH DAY	133
74640	53.	51.	48.	46.		SCHEDULED EUTH DAY	128
74643	49.	51.	48.	43.		SCHEDULED EUTH DAY	132
74646	46.	46.	46.	43.		SCHEDULED EUTH DAY	129
74647	49.	50.	46.	41.		SCHEDULED EUTH DAY	132
74649	49.	51.	47.	43.	39.	SCHEDULED EUTH DAY	133
74652	49.	49.	49.	43.		SCHEDULED EUTH DAY	129
74653	51.	50.	49.	46.		SCHEDULED EUTH DAY	132
74658	50.	52.	50.	45.		SCHEDULED EUTH DAY	128
74659	57.	51.	49.	46.	46.	SCHEDULED EUTH DAY	133
74663	55.	53.	53.	46.		SCHEDULED EUTH DAY	128
74680	48.	49.	43.	41.	40.	SCHEDULED EUTH DAY	133
74688	45.	46.	46.	41.		SCHEDULED EUTH DAY	128
74692	49.	52.	48.	46.		SCHEDULED EUTH DAY	129
74695	48.	51.	49.	44.		SCHEDULED EUTH DAY	132
74697	51.	54.	48.	46.	43.	SCHEDULED EUTH DAY	133
74702	49.	47.	48.	46.		SCHEDULED EUTH DAY	129
74703	47.	49.	47.	43.	39.	SCHEDULED EUTH DAY	133
74705	44.	45.	50.	45.	39.	SCHEDULED EUTH DAY	133
74713	45.	46.	44.	39.		SCHEDULED EUTH DAY	128
74718	50.	51.	50.	46.	43.	SCHEDULED EUTH DAY	133
74720	46.	47.	43.	41.		SCHEDULED EUTH DAY	129

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 143 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	MALE GROUP: 126 TO 133	2500 PPM
ANIMAL						
74723	45.	46.	45.	39.	SCHEDULED EUTH DAY	129
74725	49.	50.	49.	62.	SCHEDULED EUTH DAY	132
74726	50.	52.	51.	45.	SCHEDULED EUTH DAY	132
74728	45.	49.	49.	47.	SCHEDULED EUTH DAY	128
MEAN	49.	50.	48.	45.	42.	
S.D.	3.3	2.6	2.6	4.1	2.9	
N	30	30	30	30	8	

PBFTSv4.25  
09/05/2002

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74737	93.	85.	NA	83.	85.	77.	82.	78.
74740	87.	100.	NA	82.	80.	79.	79.	74.
74745	110.	97.	NA	91.	96.	88.	82.	82.
74749	87.	98.	NA	90.	94.	86.	86.	78.
74756	87.	95.	NA	85.	83.	81.	80.	75.
74757	72.	74.	NA	81.	80.	80.	77.	75.
74759	105.	112.	NA	82.	83.	80.	78.	74.
74764	22.	116.	NA	89.	86.	89.	88.	85.
74767	92.	89.	NA	90.	89.	86.	89.	86.
74772	74.	92.	NA	85.	86.	81.	83.	79.
74773	63.	94.	NA	80.	81.	77.	76.	70.
74774	98.	98.	NA	88.	94.	83.	83.	81.
74779	64.	95.	NA	89.	90.	81.	81.	80.
74789	98.	88.	NA	81.	82.	78.	79.	77.
74794	97.	93.	NA	84.	86.	82.	83.	79.
74804	101.	93.	NA	88.	87.	79.	79.	79.
74808	88.	95.	NA	83.	86.	81.	79.	72.
74810	104.	95.	NA	84.	79.	80.	81.	78.
74815	95.	91.	NA	82.	79.	80.	79.	76.
74826	91.	97.	NA	92.	90.	91.	87.	85.
74828	91.	94.	NA	83.	88.	85.	89.	82.
74829	94.	94.	NA	88.	89.	87.	83.	81.
74840	75.	94.	NA	85.	82.	76.	74.	74.
74841	97.	94.	NA	86.	83.	85.	83.	72.
74842	84.	90.	NA	81.	87.	84.	84.	83.
74844	102.	96.	NA	91.	85.	84.	82.	83.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 2

DAY	FEMALE GROUP: 0 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74845	93.	101.	NA	86.	83.	81.	84.	78.
74854	86.	92.	NA	82.	84.	81.	79.	78.
74864	94.	101.	NA	78.	85.	81.	82.	74.
74867	95.	97.	NA	86.	83.	83.	84.	80.
MEAN	88.	95.		85.	86.	82.	82.	78.
S.D.	16.8	7.3		3.7	4.4	3.7	3.7	4.1
N	30	30		30	30	30	30	30

NA = NOT APPLICABLE

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TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74742	89.	91.	95.	84.	83.	89.	82.	75.
74746	94.	89.	94.	86.	82.	83.	82.	77.
74753	81.	91.	98.	87.	88.	79.	80.	75.
74761	46.	98.	83.	88.	82.	78.	78.	72.
74762	92.	106.	97.	87.	89.	86.	79.	83.
74765	95.	90.	85.	75.	79.	75.	78.	71.
74782	104.	95.	93.	85.	84.	84.	78.	70.
74785	85.	86.	89.	84.	84.	83.	81.	74.
74790	66.	99.	94.	88.	89.	81.	80.	78.
74796	96.	97.	99.	94.	93.	91.	87.	79.
74797	81.	91.	96.	114.	91.	85.	78.	75.
74798	86.	95.	94.	87.	91.	92.	76.	84.
74802	94.	93.	92.	84.	79.	78.	86.	81.
74805	103.	85.	87.	81.	86.	80.	76.	72.
74809	81.	110.	92.	90.	90.	89.	80.	79.
74812	102.	86.	89.	96.	88.	84.	83.	82.
74816	88.	87.	86.	85.	79.	76.	73.	68.
74819	97.	90.	87.	87.	84.	75.	74.	74.
74823	83.	96.	96.	94.	89.	86.	77.	75.
74824	88.	88.	86.	81.	77.	76.	73.	77.
74835	88.	85.	93.	83.	83.	83.	86.	81.
74838	88.	96.	90.	97.	81.	76.	83.	79.
74839	100.	108.	96.	86.	82.	82.	79.	77.
74846	83.	92.	89.	84.	80.	87.	85.	84.
74856	117.	96.	91.	84.	83.	84.	85.	75.
74859	108.	98.	90.	89.	92.	81.	74.	70.

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 4

DAY	FEMALE GROUP: 500 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74861	91.	96.	83.	88.	86.	81.	82.	71.	
74863	104.	92.	93.	91.	88.	86.	83.	79.	
74869	108.	89.	92.	83.	81.	78.	79.	75.	
74873	95.	86.	98.	94.	107.	77.	82.	84.	
MEAN	91.	93.	92.	88.	86.	82.	80.	77.	
S.D.	13.4	6.5	4.5	6.9	6.0	4.8	3.9	4.5	
N	30	30	30	30	30	30	30	30	

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TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 1000 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74738	99.	96.	100.	88.	85.	78.	74.	72.
74739	81.	96.	94.	81.	79.	79.	78.	75.
74743	95.	99.	94.	85.	84.	81.	78.	69.
74744	85.	93.	89.	82.	83.	85.	81.	74.
74748	86.	95.	94.	81.	83.	76.	80.	76.
74752	97.	93.	90.	91.	90.	91.	87.	89.
74766	70.	92.	85.	77.	94.	81.	79.	76.
74777	90.	89.	91.	81.	83.	79.	79.	74.
74780	70.	90.	83.	74.	75.	75.	79.	74.
74791	83.	95.	92.	83.	84.	82.	89.	76.
74793	97.	89.	92.	91.	82.	82.	85.	80.
74795	107.	81.	81.	88.	89.	86.	78.	73.
74799	101.	89.	93.	83.	86.	86.	80.	81.
74801	86.	96.	93.	89.	80.	75.	75.	73.
74806	69.	82.	80.	82.	79.	73.	79.	76.
74818	100.	90.	92.	84.	100.	79.	79.	76.
74820	99.	92.	96.	88.	79.	79.	86.	79.
74821	97.	87.	91.	93.	99.	91.	88.	83.
74830	89.	94.	92.	89.	86.	83.	85.	81.
74831	77.	99.	90.	85.	86.	84.	80.	73.
74834	109.	94.	90.	83.	82.	91.	80.	72.
74847	89.	86.	90.	81.	78.	81.	78.	81.
74848	112.	85.	92.	83.	78.	80.	76.	77.
74849	76.	100.	96.	93.	94.	88.	88.	89.
74850	82.	95.	94.	86.	79.	78.	81.	80.
74855	89.	88.	85.	75.	83.	76.	75.	70.

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 6

DAY	FEMALE GROUP: 1000 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74858	94.	95.	81.	90.	87.	79.	79.	77.
74865	102.	95.	93.	88.	87.	82.	82.	82.
74868	83.	100.	92.	83.	83.	79.	79.	80.
74871	98.	96.	92.	84.	78.	84.	85.	77.
MEAN	90.	92.	91.	85.	85.	81.	81.	77.
S.D.	11.5	5.0	4.7	4.8	6.1	4.8	4.1	4.8
N	30	30	30	30	30	30	30	30

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 2500 PPM							
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74747	57.	81.	78.	83.	82.	77.	78.	74.
74750	96.	102.	92.	88.	85.	88.	85.	81.
74751	102.	106.	98.	91.	92.	86.	86.	79.
74754	101.	97.	87.	83.	81.	79.	77.	73.
74755	98.	99.	101.	88.	86.	81.	83.	81.
74768	91.	81.	96.	84.	83.	80.	77.	78.
74769	86.	117.	87.	93.	89.	90.	76.	79.
74770	80.	96.	83.	78.	79.	79.	76.	76.
74781	92.	93.	88.	86.	82.	75.	76.	73.
74784	91.	81.	86.	79.	80.	79.	78.	69.
74786	93.	93.	106.	90.	82.	73.	90.	92.
74787	112.	101.	98.	95.	109.	94.	87.	86.
74792	96.	89.	90.	78.	73.	74.	69.	70.
74800	106.	96.	95.	90.	89.	89.	83.	81.
74803	102.	92.	111.	98.	93.	94.	91.	87.
74807	99.	92.	93.	82.	89.	77.	73.	67.
74811	92.	87.	90.	84.	81.	81.	77.	75.
74813	90.	90.	77.	84.	84.	80.	75.	55.
74817	87.	88.	88.	85.	82.	77.	78.	70.
74822	84.	97.	86.	80.	85.	83.	79.	77.
74827	70.	93.	89.	75.	81.	80.	79.	73.
74832	97.	83.	91.	81.	80.	77.	77.	70.
74833	89.	85.	84.	84.	85.	73.	78.	81.
74836	92.	88.	93.	97.	94.	86.	87.	81.
74853	83.	91.	84.	77.	79.	77.	79.	71.
74857	103.	91.	85.	87.	86.	75.	77.	72.

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM								
	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42	
ANIMAL									
74860	76.	94.	97.	79.	80.	76.	80.	75.	
74862	95.	92.	98.	82.	82.	74.	83.	76.	
74866	92.	90.	99.	88.	89.	90.	85.	78.	
74870	108.	97.	98.	85.	84.	81.	77.	71.	
MEAN	92.	93.	92.	85.	85.	81.	80.	76.	
S.D.	11.4	7.7	7.7	5.9	6.5	6.1	5.1	7.0	
N	30	30	30	30	30	30	30	30	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

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DAY	FEMALE GROUP: 0 PPM							
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74737	72.	71.	67.	67.	NA	NA	NA	NA
74740	72.	74.	71.	68.	NA	NA	NA	NA
74745	76.	80.	73.	69.	NA	NA	74.	61.
74749	76.	73.	68.	69.	NA	NA	NA	NA
74756	72.	78.	72.	70.	NA	NA	63.	64.
74757	71.	71.	71.	67.	NA	NA	NA	NA
74759	69.	66.	66.	65.	NA	NA	NA	NA
74764	77.	78.	71.	69.	NA	NA	NA	NA
74767	80.	84.	83.	68.	NA	NA	NA	NA
74772	69.	73.	68.	65.	NA	NA	NA	NA
74773	65.	65.	68.	63.	NA	NA	NA	NA
74774	74.	77.	72.	72.	NA	NA	NA	NA
74779	77.	73.	72.	69.	NA	NA	NA	NA
74789	75.	78.	72.	71.	NA	NA	NA	NA
74794	73.	75.	82.	67.	NA	NA	NA	NA
74804	73.	71.	73.	73.	NA	NA	NA	NA
74808	76.	77.	71.	69.	NA	NA	NA	NA
74810	76.	72.	68.	66.	NA	NA	NA	NA
74815	71.	73.	68.	57.	NA	NA	65.	59.
74826	82.	140.	72.	87.	NA	NA	NA	NA
74828	79.	73.	76.	65.	NA	NA	NA	NA
74829	76.	72.	72.	68.	NA	NA	NA	NA
74840	70.	71.	68.	60.	NA	NA	NA	NA
74841	70.	76.	72.	70.	NA	NA	NA	NA
74842	72.	78.	73.	71.	NA	NA	66.	58.
74844	76.	72.	71.	71.	NA	NA	NA	NA

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 10

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74845	75.	75.	71.	67.	NA	NA	NA	NA
74854	71.	72.	67.	66.	NA	NA	NA	NA
74864	73.	74.	69.	74.	NA	NA	NA	NA
74867	73.	72.	68.	72.	NA	NA	NA	NA
MEAN	74.	76.	71.	69.			67.	61.
S.D.	3.6	12.7	3.9	5.0			4.8	2.6
N	30	30	30	30			4	4

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 11

DAY	FEMALE GROUP:				500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74742	69.	73.	70.	67.	NA	NA	NA	NA
74746	75.	71.	72.	71.	NA	NA	NA	NA
74753	70.	70.	69.	68.	NA	NA	NA	NA
74761	71.	68.	67.	66.	NA	NA	NA	NA
74762	80.	78.	84.	80.	NA	NA	NA	NA
74765	69.	70.	65.	64.	NA	NA	NA	NA
74782	71.	75.	70.	73.	NA	NA	NA	NA
74785	67.	71.	66.	62.	NA	NA	NA	NA
74790	76.	78.	71.	73.	NA	NA	NA	NA
74796	78.	81.	80.	72.	NA	NA	NA	NA
74797	81.	73.	77.	70.	NA	NA	NA	NA
74798	76.	72.	71.	71.	NA	NA	NA	NA
74802	79.	76.	74.	77.	NA	NA	NA	NA
74805	66.	64.	66.	61.	NA	NA	NA	EUTH IN EXTREMIS DAY 94
74809	75.	79.	69.	69.	NA	NA	NA	NA
74812	74.	70.	71.	68.	NA	NA	NA	NA
74816	68.	69.	67.	61.	NA	NA	54.	NA
74819	71.	72.	69.	65.	NA	NA	NA	NA
74823	76.	73.	63.	63.	NA	NA	NA	NA
74824	70.	67.	66.	70.	NA	NA	NA	NA
74835	76.	76.	71.	67.	NA	NA	NA	NA
74838	74.	74.	68.	66.	NA	NA	NA	NA
74839	75.	74.	73.	66.	NA	NA	NA	NA
74846	73.	80.	75.	72.	NA	NA	NA	NA
74856	73.	75.	74.	67.	NA	NA	NA	NA
74859	72.	69.	68.	66.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 12

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74861	72.	70.	70.	66.	NA	NA	NA	NA
74863	78.	70.	66.	66.	NA	NA	NA	NA
74869	69.	72.	69.	67.	NA	NA	NA	NA
74873	72.	87.	74.	77.	NA	NA	NA	NA
MEAN	73.	73.	71.	68.			54.	
S.D.	3.9	4.7	4.5	4.6			0.0	
N	30	30	30	30			1	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 13

DAY	FEMALE GROUP:				1000 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74738	74.	75.	75.	74.	NA	NA	NA	NA
74739	70.	75.	73.	68.	NA	NA	NA	NA
74743	69.	70.	73.	65.	NA	NA	NA	NA
74744	78.	74.	72.	71.	NA	NA	NA	NA
74748	75.	73.	68.	67.	NA	NA	NA	NA
74752	77.	83.	80.	79.	NA	NA	NA	NA
74766	76.	74.	68.	63.	NA	NA	NA	NA
74777	68.	70.	72.	67.	NA	NA	NA	NA
74780	70.	72.	68.	62.	NA	NA	NA	NA
74791	77.	78.	72.	74.	NA	NA	NA	NA
74793	75.	77.	74.	76.	NA	NA	NA	NA
74795	76.	77.	76.	76.	NA	NA	NA	NA
74799	78.	72.	75.	75.	NA	NA	NA	NA
74801	71.	67.	71.	68.	NA	NA	NA	NA
74806	76.	73.	73.	70.	NA	NA	NA	NA
74818	71.	71.	66.	60.	NA	NA	60.	63.
74820	73.	75.	75.	71.	NA	NA	NA	NA
74821	81.	77.	76.	74.	NA	NA	NA	NA
74830	77.	81.	73.	76.	NA	NA	63.	NA
74831	77.	77.	72.	71.	NA	NA	NA	NA
74834	70.	73.	68.	66.	NA	NA	NA	NA
74847	76.	75.	72.	69.	NA	NA	NA	NA
74848	65.	70.	64.	65.	NA	NA	NA	NA
74849	88.	81.	76.	78.	NA	NA	NA	NA
74850	74.	69.	73.	68.	NA	NA	NA	NA
74855	80.	76.	71.	69.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 14

DAY	FEMALE GROUP:				1000 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74858	81.	71.	70.	71.	NA	NA	NA	NA
74865	82.	79.	78.	74.	NA	NA	NA	NA
74868	76.	73.	73.	73.	NA	NA	NA	NA
74871	70.	74.	74.	67.	NA	NA	NA	NA
MEAN	75.	74.	72.	70.			62.	63.
S.D.	4.8	3.8	3.5	4.8			2.1	0.0
N	30	30	30	30			2	1

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 15

DAY	FEMALE GROUP:				2500 PPM			
	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74747	72.	62.	66.	70.	NA	NA	NA	NA
74750	79.	75.	69.	68.	NA	NA	NA	NA
74751	81.	78.	78.	77.	NA	NA	NA	NA
74754	74.	73.	68.	72.	NA	NA	NA	NA
74755	77.	74.	73.	73.	NA	NA	NA	NA
74768	69.	71.	67.	68.	NA	NA	NA	NA
74769	76.	73.	65.	64.	NA	NA	NA	NA
74770	74.	72.	66.	69.	NA	NA	NA	NA
74781	70.	64.	67.	73.	NA	NA	NA	NA
74784	64.	67.	67.	65.	NA	NA	NA	NA
74786	85.	89.	79.	76.	NA	NA	NA	NA
74787	82.	78.	75.	75.	NA	NA	NA	NA
74792	65.	65.	64.	62.	NA	NA	NA	NA
74800	82.	81.	84.	78.	NA	NA	NA	NA
74803	82.	94.	88.	78.	NA	NA	NA	NA
74807	69.	72.	68.	64.	NA	NA	NA	NA
74811	74.	78.	60.	63.	NA	NA	NA	NA
74813	56.	76.	72.	67.	NA	NA	NA	NA
74817	72.	74.	69.	76.	NA	NA	NA	NA
74822	75.	73.	70.	68.	NA	NA	NA	NA
74827	74.	72.	66.	66.	NA	NA	NA	NA
74832	67.	71.	67.	68.	NA	NA	NA	NA
74833	76.	80.	82.	59.	NA	NA	NA	NA
74836	75.	78.	72.	73.	NA	NA	NA	NA
74853	68.	67.	66.	67.	NA	NA	NA	NA
74857	74.	69.	68.	71.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	FEMALE GROUP: 70 TO 77	2500 PPM 77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74860	76.	70.	66.	69.	NA	NA	NA	NA
74862	76.	72.	75.	75.	NA	NA	NA	NA
74866	75.	75.	68.	71.	NA	NA	NA	NA
74870	67.	70.	68.	62.	NA	NA	NA	NA
MEAN	74.	74.	70.	70.				
S.D.	6.2	6.7	6.4	5.2				
N	30	30	30	30				

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 17

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 0 PPM	
ANIMAL							
74737	NA	NA	NA	NA	SCHEDULED EUTH DAY	129	
74740	NA	NA	NA	NA	SCHEDULED EUTH DAY	129	
74745	65.	71.	71.	77.	SCHEDULED EUTH DAY	129	
74749	NA	66.	60.	66.	SCHEDULED EUTH DAY	129	
74756	65.	66.	63.	66.	SCHEDULED EUTH DAY	129	
74757	NA	NA	NA	NA	64.	SCHEDULED EUTH DAY	133
74759	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74764	NA	NA	NA	NA	74.	SCHEDULED EUTH DAY	133
74767	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74772	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74773	NA	NA	NA	NA	66.	SCHEDULED EUTH DAY	133
74774	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74779	63.	63.	57.	62.	58.	SCHEDULED EUTH DAY	133
74789	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74794	61.	63.	63.	64.	60.	SCHEDULED EUTH DAY	133
74804	NA	NA	NA	NA	64.	SCHEDULED EUTH DAY	133
74808	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74810	NA	NA	NA	NA	SCHEDULED EUTH DAY	129	
74815	58.	61.	63.	66.	SCHEDULED EUTH DAY	132	
74826	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74828	70.	69.	58.	68.	SCHEDULED EUTH DAY	129	
74829	NA	NA	NA	NA	57.	SCHEDULED EUTH DAY	133
74840	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	
74841	NA	NA	NA	NA	SCHEDULED EUTH DAY	132	
74842	55.	51.	70.	89.	SCHEDULED EUTH DAY	128	
74844	NA	NA	NA	NA	SCHEDULED EUTH DAY	128	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 18

DAY	FEMALE GROUP:					0 PPM
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74845	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74854	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74864	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74867	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
MEAN	62.	64.	63.	70.	63.	
S.D.	5.0	6.1	5.1	9.0	5.8	
N	7	8	8	8	7	

NA = NOT APPLICABLE

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TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 500 PPM							
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74742	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74746	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74753	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74761	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74762	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74765	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74782	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74785	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74790	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74796	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74797	NA	NA	NA	NA	71. SCHEDULED EUTH DAY	133		
74798	NA	NA	NA	NA	69. SCHEDULED EUTH DAY	133		
74802	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74809	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74812	NA	NA	NA	NA	73. SCHEDULED EUTH DAY	133		
74816	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74819	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74823	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74824	NA	NA	NA	NA	96. SCHEDULED EUTH DAY	133		
74835	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74838	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74839	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74846	NA	NA	NA	NA	69. SCHEDULED EUTH DAY	133		
74856	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74859	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74861	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP:	500 PPM
ANIMAL							
74863	NA	NA	NA	NA	69.	SCHEDULED EUTH DAY	133
74869	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74873	60.	58.	51.	57.	54.	SCHEDULED EUTH DAY	133
MEAN	60.	58.	51.	57.	72.		
S.D.	0.0	0.0	0.0	0.0	12.4		
N	1	1	1	1	7		

NA = NOT APPLICABLE

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 1000 PPM	
ANIMAL							
74738	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74739	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74743	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74744	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74748	NA	NA	NA	NA		69. SCHEDULED EUTH DAY	133
74752	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74766	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74777	53.	56.	54.	59.		SCHEDULED EUTH DAY	129
74780	NA	NA	NA	NA		66. SCHEDULED EUTH DAY	133
74791	NA	NA	NA	NA		66. SCHEDULED EUTH DAY	133
74793	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74795	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74799	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74801	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74806	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74818	59.	58.	63.	70.		SCHEDULED EUTH DAY	129
74820	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74821	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74830	NA	NA	NA	NA		70. SCHEDULED EUTH DAY	133
74831	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74834	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74847	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74848	NA	NA	NA	NA		59. SCHEDULED EUTH DAY	133
74849	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74850	NA	NA	NA	NA		63. SCHEDULED EUTH DAY	133
74855	NA	NA	NA	NA		SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 22

DAY	FEMALE GROUP:					1000 PPM
	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74858	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74865	NA	62.	66.	66.	SCHEDULED EUTH DAY	132
74868	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74871	NA	NA	NA	NA	66. SCHEDULED EUTH DAY	133
MEAN	56.	59.	61.	65.	66.	
S.D.	4.2	3.1	6.2	5.6	3.7	
N	2	3	3	3	7	

NA = NOT APPLICABLE

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TABLE 144 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 2500 PPM	
ANIMAL							
74747	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74750	57.	60.	55.	61.		SCHEDULED EUTH DAY	132
74751	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74754	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74755	NA	NA	NA	NA	53.	SCHEDULED EUTH DAY	133
74768	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74769	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74770	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74781	NA	NA	78.	68.		SCHEDULED EUTH DAY	132
74784	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74786	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74787	NA	NA	NA	NA	71.	SCHEDULED EUTH DAY	133
74792	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74800	NA	70.	66.	66.		SCHEDULED EUTH DAY	132
74803	NA	NA	NA	NA		SCHEDULED EUTH DAY	128
74807	NA	NA	NA	NA	52.	SCHEDULED EUTH DAY	133
74811	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74813	NA	NA	NA	NA	74.	SCHEDULED EUTH DAY	133
74817	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74822	NA	NA	NA	NA	66.	SCHEDULED EUTH DAY	133
74827	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74832	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74833	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74836	NA	NA	NA	NA	69.	SCHEDULED EUTH DAY	133
74853	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74857	NA	NA	NA	NA		SCHEDULED EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 144 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	FEMALE GROUP: 2500 PPM	
ANIMAL							
74860	NA	NA	NA	NA	69.	SCHEDULED EUTH DAY	133
74862	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
74866	NA	NA	NA	NA	67.	SCHEDULED EUTH DAY	133
74870	NA	NA	NA	NA		SCHEDULED EUTH DAY	129
MEAN	57.	65.	66.	65.	65.		
S.D.	0.0	7.1	11.5	3.6	8.2		
N	1	2	3	3	8		

NA = NOT APPLICABLE

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09/05/2002

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74602	-1.7	11.1	NA	17.6	12.1	9.3	11.5	4.0
74603	2.4	8.6	NA	17.5	10.4	13.0	8.1	6.2
74610	-2.9	10.7	NA	11.2	17.3	9.7	12.0	-0.6
74614	1.2	5.6	NA	21.7	16.1	13.7	11.0	11.6
74616	1.1	8.8	NA	16.4	15.3	7.1	13.8	8.2
74620	3.0	8.2	8.8	15.9	13.1	11.5	12.7	8.8
74627	1.0	10.2	7.7	20.3	17.0	15.3	9.0	11.7
74630	-1.1	12.6	7.4	14.3	20.9	10.2	11.8	11.2
74632	1.1	7.1	5.7	7.1	14.9	9.9	11.8	16.8
74633	-4.1	10.1	NA	19.2	17.0	13.2	15.3	10.2
74636	0.6	8.6	3.7	15.6	12.3	8.1	6.8	7.1
74644	3.4	10.6	6.6	19.9	11.4	13.2	12.7	7.7
74645	1.6	10.2	1.2	17.9	10.9	17.9	13.1	13.2
74648	1.7	7.4	NA	16.2	11.0	14.9	9.9	11.5
74656	1.9	13.2	NA	21.4	18.4	11.1	9.9	10.2
74660	2.4	9.3	9.7	26.3	20.3	10.6	17.9	8.8
74664	6.3	9.3	9.1	11.9	16.1	13.7	10.4	5.5
74665	1.6	12.8	8.5	22.8	14.8	15.7	4.4	10.5
74669	3.3	9.7	NA	18.6	13.0	4.8	10.4	10.4
74677	2.6	6.9	NA	19.8	16.3	8.5	11.1	7.7
74681	0.0	11.1	10.2	20.6	18.2	15.3	4.8	14.7
74682	0.0	9.7	4.1	13.7	14.3	9.7	14.8	3.8
74686	1.6	9.5	9.3	16.5	15.9	13.8	9.7	6.9
74696	2.0	9.2	NA	18.9	14.3	16.7	11.3	9.4
74698	4.6	10.0	NA	18.0	7.8	29.0	-10.6	19.4
74700	3.6	9.3	5.6	11.2	13.0	14.3	5.5	6.0

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 2

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74701	2.3	7.4	3.7	9.5	18.3	6.0	13.7	4.0
74707	2.3	8.3	7.9	14.3	10.6	14.8	11.8	9.4
74711	2.6	6.5	NA	14.3	16.7	17.7	14.8	12.1
74724	0.0	9.9	NA	20.9	6.3	20.6	14.3	8.7
MEAN	1.5	9.4	6.8	17.0	14.5	13.0	10.5	9.2
S.D.	2.10	1.80	2.60	4.21	3.48	4.78	5.05	4.03
N	30	30	16	30	30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 3

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74601	1.7	9.3	11.6	19.5	16.9	15.5	11.8	10.9
74604	1.6	9.2	11.6	15.3	12.0	11.0	1.9	3.0
74605	1.7	13.2	4.2	18.0	11.9	14.9	10.6	11.6
74609	3.9	11.1	5.3	19.4	14.8	10.8	7.4	7.4
74612	4.4	10.6	8.8	21.4	19.9	15.8	8.4	14.3
74613	2.4	11.7	6.9	21.7	19.6	7.4	10.6	18.1
74621	1.2	11.0	3.6	13.7	-12.6	18.2	5.8	1.4
74625	1.6	4.3	9.1	15.0	15.5	16.8	11.4	7.4
74626	3.7	9.9	7.1	15.8	11.6	10.2	11.2	14.8
74634	4.4	4.4	7.7	22.3	11.0	13.2	14.3	9.2
74641	3.1	7.7	10.3	14.9	10.9	18.9	14.8	1.1
74642	1.8	6.2	6.7	18.7	6.9	18.7	2.7	11.8
74655	3.4	12.0	9.9	19.4	17.1	14.9	9.3	11.2
74662	-1.2	4.8	9.3	6.8	11.2	5.0	5.6	5.0
74666	2.3	6.9	5.8	15.0	21.4	7.1	14.9	6.0
74667	0.0	8.2	5.1	18.1	17.5	20.7	11.9	20.5
74671	3.0	6.8	7.1	25.5	13.7	14.3	8.0	13.7
74673	3.6	7.9	8.9	16.3	11.0	15.3	10.2	12.3
74676	-2.2	6.1	9.9	21.2	13.3	11.4	5.7	15.7
74685	1.0	8.2	3.6	16.6	11.5	13.8	7.1	9.7
74689	2.2	9.7	9.5	16.1	13.1	10.1	-2.4	10.1
74690	2.2	5.4	10.1	13.6	17.1	7.4	8.0	12.1
74704	-0.6	8.8	1.2	14.9	9.1	13.7	11.4	7.7
74708	2.4	8.9	6.6	12.5	16.5	14.9	10.4	6.0
74709	4.2	5.7	6.0	9.1	10.1	8.7	7.1	11.4
74712	1.5	11.4	4.9	16.9	15.9	20.0	9.3	10.4

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 500 PPM

PAGE 4

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74715	3.2	6.5	7.8	20.1	14.9	19.3	11.2	13.7
74722	0.6	9.9	7.8	21.4	8.6	6.5	9.1	11.0
74729	1.6	8.7	2.5	10.4	12.4	13.1	14.3	8.0
74733	2.0	7.4	2.9	9.5	0.6	10.7	0.6	16.6
MEAN	2.0	8.4	7.1	16.6	12.4	13.3	8.8	10.4
S.D.	1.60	2.39	2.75	4.31	6.35	4.33	4.17	4.62
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74606	-0.7	10.9	10.1	19.6	16.0	19.8	13.8	11.7
74607	2.9	8.4	9.5	13.8	6.5	17.0	6.6	7.1
74608	-0.6	5.7	6.9	16.5	7.1	2.2	23.5	-1.6
74611	-1.1	10.6	7.7	14.3	15.9	11.5	10.7	6.6
74615	3.6	8.2	8.2	19.2	14.8	15.3	12.8	8.7
74617	4.5	6.7	5.1	7.8	10.6	6.5	10.9	8.2
74618	2.6	12.2	10.1	15.9	13.8	14.8	3.2	13.3
74619	2.6	8.6	6.0	13.0	4.5	8.4	3.7	6.8
74622	4.6	7.1	6.5	9.9	10.6	3.9	15.9	9.3
74638	4.6	6.9	11.9	16.0	14.3	10.4	11.1	11.1
74639	3.6	7.7	7.1	16.8	13.7	16.7	14.3	11.2
74650	3.8	4.3	2.4	13.8	16.5	11.7	2.3	15.3
74661	4.6	6.5	3.4	11.0	14.3	16.9	12.0	13.1
74668	2.5	8.0	5.6	20.3	17.6	11.1	10.1	16.3
74670	3.6	6.6	7.1	17.5	12.2	9.5	7.1	7.4
74674	2.9	5.1	6.5	19.6	6.0	7.7	18.3	11.4
74675	3.0	7.1	6.8	13.6	10.4	11.9	10.1	4.5
74679	0.6	4.5	10.9	16.7	6.5	6.0	13.2	6.3
74683	1.5	8.7	8.8	13.8	11.6	14.8	7.4	0.5
74684	-1.1	5.4	4.8	16.8	12.0	13.7	9.7	10.4
74691	3.3	5.5	4.8	13.0	16.2	13.1	8.6	8.6
74693	3.0	10.6	11.1	13.7	15.9	9.3	12.8	5.3
74699	2.9	10.6	7.4	20.6	16.9	19.0	11.4	10.6
74706	0.5	2.4	10.1	13.1	20.9	18.2	14.3	12.4
74710	2.6	5.7	7.1	23.6	15.9	10.6	-0.6	11.3
74717	1.3	6.2	6.3	13.7	12.0	17.1	7.4	9.3

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TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 1000 PPM

PAGE 6

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74719	1.6	9.0	8.6	20.9	14.8	18.1	7.4	13.2
74727	4.8	9.9	7.4	21.2	11.7	15.3	6.4	7.9
74734	3.3	9.7	6.3	18.9	14.3	18.1	10.1	9.9
74735	0.4	6.9	4.2	16.6	11.6	10.0	9.8	5.7
MEAN	2.4	7.5	7.3	16.0	12.8	12.6	10.1	9.1
S.D.	1.77	2.28	2.32	3.65	3.87	4.67	4.86	3.92
N	30	30	30	30	30	30	30	30

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 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74624	1.3	8.1	8.6	19.7	16.2	16.8	10.7	7.1
74628	5.2	2.2	0.6	14.3	13.6	13.7	8.0	0.0
74629	1.1	13.1	6.2	21.7	16.1	13.7	7.5	8.7
74631	2.6	7.1	9.0	14.3	15.5	14.3	8.0	3.4
74635	1.1	6.3	2.0	14.3	12.5	15.5	12.0	9.7
74640	-0.6	13.1	7.1	18.3	-1.4	26.0	12.0	12.1
74643	5.3	4.8	7.1	16.8	12.4	6.2	4.3	9.7
74646	2.9	6.0	5.2	18.5	13.6	15.5	11.4	15.4
74647	1.7	8.3	9.9	21.1	25.3	16.4	12.2	11.6
74649	2.0	6.6	7.7	11.8	9.3	9.3	18.3	9.1
74652	2.9	6.3	9.3	20.2	14.3	10.3	8.9	16.0
74653	2.2	8.8	7.1	17.7	14.9	11.6	10.6	5.8
74658	2.2	8.9	3.7	14.3	11.2	11.2	10.7	11.9
74659	0.6	10.3	6.2	24.2	10.7	10.1	3.6	13.1
74663	1.9	7.1	6.1	17.5	20.8	13.1	7.7	10.6
74680	0.6	10.4	5.6	19.0	20.2	18.3	5.5	17.5
74688	1.3	13.7	13.7	25.4	20.9	21.4	10.0	7.4
74692	-0.6	8.9	7.8	14.3	14.9	10.6	8.1	8.1
74695	-4.8	8.9	4.8	17.6	19.0	8.2	11.1	14.8
74697	4.4	9.2	7.7	13.2	16.4	10.4	6.3	5.3
74702	2.6	2.7	5.6	21.7	15.5	1.3	11.9	11.5
74703	0.7	12.4	0.0	11.6	19.3	16.6	14.9	8.9
74705	2.1	9.1	12.6	21.1	14.3	18.3	16.5	10.1
74713	0.5	9.5	11.9	17.4	20.9	17.6	7.4	18.1
74718	3.8	8.2	5.8	22.2	13.2	15.8	7.7	12.8
74720	3.1	8.9	12.3	20.5	16.6	20.0	11.4	12.6

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 2500 PPM

PAGE 8

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74723	1.8	12.0	9.3	19.3	16.7	13.7	13.7	13.2
74725	0.6	6.9	9.5	25.5	17.9	20.2	5.4	17.1
74726	0.5	10.6	6.3	15.9	5.5	9.3	14.3	6.6
74728	0.6	6.9	10.4	13.7	19.9	14.8	13.3	8.4
MEAN	1.7	8.5	7.3	18.1	15.2	14.0	10.1	10.6
S.D.	1.92	2.79	3.28	3.83	5.11	4.98	3.55	4.23
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 9

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74602	3.4	7.7	14.8	-2.3	NA	NA	10.3	-0.5
74603	9.3	0.6	9.3	10.6	NA	NA	-0.6	1.9
74610	11.3	6.9	9.7	4.2	NA	NA	4.6	1.1
74614	9.0	5.1	12.2	1.1	NA	NA	4.4	7.7
74616	14.3	5.9	8.7	9.0	NA	NA	6.6	2.0
74620	7.7	4.4	6.3	6.6	NA	NA	3.2	-2.9
74627	12.2	2.6	10.2	2.1	NA	NA	0.0	4.9
74630	7.7	2.6	9.7	12.8	NA	NA	5.9	-5.1
74632	8.7	4.8	10.1	4.2	NA	NA	0.0	3.7
74633	10.8	12.3	8.9	1.0	NA	NA	9.5	4.4
74636	8.9	5.0	9.1	-3.1	NA	NA	9.7	3.4
74644	7.7	10.4	6.6	2.9	NA	NA	7.7	6.0
74645	10.3	7.1	9.7	1.6	NA	NA	11.5	4.4
74648	8.2	2.7	13.7	9.0	NA	NA	12.7	8.9
74656	6.6	8.2	7.1	4.2	NA	NA	6.1	1.6
74660	4.0	11.0	13.7	4.6	NA	NA	10.1	2.7
74664	11.4	9.3	6.6	4.8	NA	NA	4.3	-1.9
74665	10.5	8.3	6.2	1.5	NA	NA	4.8	-2.0
74669	5.8	6.2	10.1	1.9	NA	NA	4.2	5.6
74677	9.7	11.3	7.4	7.9	NA	NA	5.9	2.1
74681	9.2	7.7	2.6	1.1	NA	NA	8.1	2.4
74682	8.9	5.1	7.9	4.4	NA	NA	6.0	2.3
74686	11.1	6.3	6.6	9.2	NA	NA	7.4	1.1
74696	11.8	6.9	7.1	1.0	NA	NA	3.7	1.1
74698	-2.5	12.4	11.9	-5.6	NA	NA	2.4	1.3
74700	9.9	2.4	5.7	5.0	NA	NA	8.0	-2.4

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 10

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74701	11.0	-19.0	19.4	-325.7	NA	NA	-14.3	13.7
74707	5.4	11.4	4.4	7.6	NA	NA	4.6	3.1
74711	14.3	-4.4	14.8	7.4	NA	NA	5.6	0.5
74724	5.8	9.2	13.3	3.1	NA	NA	8.1	-4.2
MEAN	8.7	5.7	9.5	-6.9			5.4	2.2
S.D.	3.39	5.97	3.58	60.35			4.95	3.92
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 11

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74601	8.3	3.1	10.7	8.9	NA	NA	3.0	0.0
74604	3.1	9.1	5.4	8.0	NA	NA	7.7	-2.4
74605	9.5	10.6	5.6	3.8	NA	NA	5.1	3.8
74609	6.9	7.7	5.8	9.2	NA	NA	11.0	1.0
74612	12.3	11.1	6.7	3.9	NA	NA	11.0	3.3
74613	0.0	9.2	14.8	8.1	NA	NA	4.3	8.5
74621	4.1	6.5	6.8	5.2	NA	NA	4.5	-5.0
74625	4.3	11.9	9.5	7.1	NA	NA	7.1	-3.7
74626	7.4	8.7	9.9	3.1	NA	NA	11.0	-7.7
74634	-2.1	2.4	11.0	10.1	NA	NA	7.1	-1.0
74641	15.9	12.2	12.2	9.7	NA	NA	0.5	4.4
74642	3.3	5.5	4.6	6.7	NA	NA	4.3	-3.8
74655	7.9	4.9	9.5	1.8	NA	NA	8.2	-4.2
74662	12.6	11.2	4.2	9.1	NA	NA	6.6	-8.3
74666	8.3	1.9	13.0	11.0	NA	NA	7.5	-1.3
74667	2.0	6.4	12.4	8.6	NA	NA	7.1	-14.3
74671	6.9	5.7	13.7	-1.9	NA	NA	5.4	0.0
74673	8.1	7.9	11.0	8.4	NA	NA	3.2	8.6
74676	9.2	7.6	7.1	2.6	NA	NA	6.9	1.9
74685	4.8	14.8	8.2	6.9	NA	NA	6.1	-2.0
74689	12.0	6.9	10.3	-27.9	NA	NA	0.6	-0.6
74690	7.4	5.3	7.9	4.8	NA	NA	5.3	-5.4
74704	8.2	7.9	4.4	9.3	NA	NA	6.3	-1.7
74708	5.5	8.8	9.5	7.7	NA	NA	-2.3	10.4
74709	11.4	2.3	10.3	15.4	NA	NA	0.5	5.5
74712	2.7	8.7	6.6	9.9	NA	NA	6.6	-2.7

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 12

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74715	6.5	7.4	11.3	6.0	NA	NA	2.4	1.9
74722	7.1	2.3	13.2	4.6	NA	NA	4.9	-3.6
74729	5.7	10.9	7.7	9.1	NA	NA	4.6	6.3
74733	5.1	5.7	12.1	-1.1	NA	NA	-4.6	2.2
MEAN	6.8	7.5	9.2	5.6			5.1	-0.3
S.D.	3.86	3.26	3.01	7.29			3.61	5.41
N	30	30	30	30			30	30

NA = NOT APPLICABLE

1107 of 3891

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 13

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74606	11.6	13.3	13.3	1.1	NA	NA	9.0	1.6
74607	14.3	4.8	5.1	9.5	NA	NA	4.2	3.7
74608	10.3	5.8	9.3	2.6	NA	NA	-6.9	0.6
74611	2.3	8.2	5.5	7.1	NA	NA	1.6	6.3
74615	9.9	5.6	10.2	3.7	NA	NA	4.8	5.1
74617	11.6	4.8	11.1	4.9	NA	NA	-5.1	3.1
74618	5.8	3.2	1.1	6.6	NA	NA	-2.6	4.4
74619	8.9	9.1	6.3	4.4	NA	NA	5.3	-1.1
74622	11.0	-4.2	19.4	1.2	NA	NA	1.5	7.1
74638	4.4	2.2	2.3	9.3	NA	NA	4.8	-4.2
74639	9.0	3.7	13.2	10.3	NA	NA	5.8	-2.9
74650	7.9	7.7	3.4	6.9	NA	NA	-4.9	12.2
74661	6.9	9.1	8.3	4.2	NA	NA	0.0	4.0
74668	5.3	5.7	11.6	5.8	NA	NA	4.2	-6.0
74670	10.7	5.9	4.9	4.8	NA	NA	6.6	3.3
74674	10.4	4.9	3.8	8.2	NA	NA	1.1	7.7
74675	10.6	-1.4	12.4	14.3	NA	NA	2.9	-1.2
74679	17.7	6.1	6.4	4.2	NA	NA	-0.5	3.4
74683	19.9	13.3	5.8	11.7	NA	NA	5.6	11.0
74684	6.3	8.8	5.7	8.0	NA	NA	3.4	2.9
74691	10.9	8.6	6.0	7.4	NA	NA	5.4	5.4
74693	14.3	4.2	6.3	7.9	NA	NA	1.1	6.9
74699	11.9	8.6	13.8	0.0	NA	NA	0.5	5.9
74706	8.6	5.5	10.8	5.1	NA	NA	3.7	6.3
74710	6.9	4.8	10.3	0.0	NA	NA	8.2	1.1
74717	10.1	5.5	10.3	4.9	NA	NA	1.2	3.1

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 1000 PPM

PAGE 14

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74719	7.1	7.1	9.5	6.9	NA	NA	9.2	3.4
74727	12.2	6.9	8.2	6.0	NA	NA	2.9	11.4
74734	6.9	8.2	-2.6	6.3	NA	NA	5.1	-1.7
74735	5.4	7.1	9.2	3.7	NA	NA	7.8	0.0
MEAN	9.6	6.1	8.0	5.9			2.9	3.4
S.D.	3.80	3.52	4.42	3.30			4.05	4.38
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 15

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74624	6.0	9.1	0.0	10.1	NA	NA	2.4	1.9
74628	7.7	13.1	8.3	1.6	NA	NA	-2.3	8.8
74629	10.6	3.7	6.8	4.3	NA	NA	8.3	-1.2
74631	9.0	7.7	8.8	2.2	NA	NA	6.9	6.3
74635	16.0	0.6	9.9	7.4	NA	NA	9.0	-0.5
74640	9.9	4.8	10.2	5.8	NA	NA	-1.1	6.3
74643	19.8	13.7	12.6	3.8	NA	NA	-1.5	10.6
74646	15.3	11.7	13.3	9.0	NA	NA	2.0	0.5
74647	12.8	13.3	8.2	3.7	NA	NA	3.9	7.7
74649	8.6	9.9	4.2	6.0	NA	NA	6.0	6.0
74652	10.9	6.2	7.1	10.9	NA	NA	8.6	-1.7
74653	9.5	4.8	3.6	4.8	NA	NA	7.1	0.0
74658	10.1	6.5	0.6	5.0	NA	NA	8.6	-2.5
74659	4.8	7.7	6.9	6.3	NA	NA	1.2	-1.7
74663	4.8	9.3	4.2	4.3	NA	NA	-1.3	2.6
74680	2.9	6.3	9.9	10.4	NA	NA	6.0	-6.0
74688	11.7	9.7	7.4	6.4	NA	NA	6.4	0.5
74692	11.9	11.9	1.9	-1.3	NA	NA	7.7	1.3
74695	12.8	12.5	8.8	5.3	NA	NA	5.9	1.6
74697	7.9	4.6	8.7	6.3	NA	NA	4.4	1.1
74702	2.3	13.2	1.2	3.9	NA	NA	8.6	12.6
74703	12.6	7.1	2.6	9.5	NA	NA	3.0	-1.9
74705	2.7	13.8	6.9	-5.4	NA	NA	5.7	0.6
74713	12.1	11.6	5.5	7.1	NA	NA	9.0	-3.4
74718	5.1	8.7	10.8	1.1	NA	NA	5.3	1.1
74720	8.2	9.0	9.0	8.5	NA	NA	7.4	2.3

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 2500 PPM

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74723	12.5	1.6	12.0	9.1	NA	NA	4.6	4.9
74725	6.5	7.7	6.0	6.9	NA	NA	3.3	-11.8
74726	5.1	2.1	21.7	4.1	NA	NA	6.1	-2.7
74728	14.3	11.9	5.7	11.9	NA	NA	9.7	2.9
MEAN	9.5	8.5	7.4	5.6			5.0	1.5
S.D.	4.24	3.80	4.42	3.72			3.44	4.98
N	30	30	30	30			30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 0 PPM

PAGE 17

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74602	-6.9	11.1	1.6	2.9		SCHEDULED	EUTH DAY	128
74603	5.0	2.4	5.4	-4.8		SCHEDULED	EUTH DAY	128
74610	9.5	5.8	3.3	-5.0	4.5	SCHEDULED	EUTH DAY	133
74614	4.2	6.9	1.6	-2.6	-0.6	SCHEDULED	EUTH DAY	133
74616	-1.7	9.2	4.9	-8.7		SCHEDULED	EUTH DAY	132
74620	8.7	6.9	3.6	-1.7	3.4	SCHEDULED	EUTH DAY	133
74627	6.9	9.7	5.2	-0.5		SCHEDULED	EUTH DAY	129
74630	2.2	4.8	2.6	3.4	-2.5	SCHEDULED	EUTH DAY	133
74632	3.9	-5.7	4.6	-1.6		SCHEDULED	EUTH DAY	132
74633	-1.0	2.0	2.6	0.5	0.0	SCHEDULED	EUTH DAY	133
74636	-4.8	4.2	1.2	6.5		SCHEDULED	EUTH DAY	129
74644	0.0	5.8	2.9	0.0		SCHEDULED	EUTH DAY	128
74645	1.6	5.3	6.9	1.1		SCHEDULED	EUTH DAY	132
74648	6.4	10.5	6.1	-7.1		SCHEDULED	EUTH DAY	132
74656	2.6	7.1	3.4	2.7		SCHEDULED	EUTH DAY	129
74660	6.3	4.8	5.3	-0.6	3.6	SCHEDULED	EUTH DAY	133
74664	-25.9	-18.0	18.4	-4.0		SCHEDULED	EUTH DAY	128
74665	-1.0	3.6	4.8	-3.4		SCHEDULED	EUTH DAY	129
74669	3.7	4.6	9.7	-9.3		SCHEDULED	EUTH DAY	129
74677	5.7	11.5	9.4	1.5		SCHEDULED	EUTH DAY	132
74681	3.4	2.4	4.6	-2.3		SCHEDULED	EUTH DAY	128
74682	5.1	1.6	5.8	3.1		SCHEDULED	EUTH DAY	128
74686	3.6	6.0	8.4	-13.7		SCHEDULED	EUTH DAY	128
74696	7.4	7.9	1.0	1.6		SCHEDULED	EUTH DAY	132
74698	-6.9	0.0	17.6	-19.9		SCHEDULED	EUTH DAY	129
74700	1.0	3.4	6.3	2.6		SCHEDULED	EUTH DAY	128

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 145 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 0 PPM

PAGE 18

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74701	-14.3	21.2	10.1	3.3	SCHEDULED EUTH DAY	129
74707	6.9	3.4	4.1	1.6	SCHEDULED EUTH DAY	132
74711	3.2	-0.5	5.3	2.9	SCHEDULED EUTH DAY	132
74724	5.9	1.5	-3.7	4.9	-3.7 SCHEDULED EUTH DAY	133
MEAN	1.4	4.6	5.4	-1.6	0.7	
S.D.	7.32	6.39	4.45	5.74	3.21	
N	30	30	30	30	7	

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 500 PPM

PAGE 19

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74601	7.4	0.6	-1.3	-1.4		SCHEDULED	EUTH	DAY	128
74604	4.8	6.6	5.1	5.1	0.6	SCHEDULED	EUTH	DAY	133
74605	3.7	6.6	6.3	-2.5	0.6	SCHEDULED	EUTH	DAY	133
74609	0.5	4.3	4.4	-4.9		SCHEDULED	EUTH	DAY	132
74612	1.5	6.7	3.1	1.6		SCHEDULED	EUTH	DAY	129
74613	-2.5	2.6	1.6	5.8		SCHEDULED	EUTH	DAY	132
74621	0.6	9.5	-2.0	1.3		SCHEDULED	EUTH	DAY	128
74625	6.9	6.3	2.9	6.0		SCHEDULED	EUTH	DAY	129
74626	9.5	2.0	3.1	1.6		SCHEDULED	EUTH	DAY	129
74634	5.6	4.9	0.0	4.2		SCHEDULED	EUTH	DAY	128
74641	9.2	3.3	1.6	5.1		SCHEDULED	EUTH	DAY	129
74642	4.0	3.5	-0.4	5.9	7.4	SCHEDULED	EUTH	DAY	133
74655	5.5	7.7	4.9	-9.1		SCHEDULED	EUTH	DAY	132
74662	9.5	2.1	6.6	-0.6		SCHEDULED	EUTH	DAY	132
74666	2.5	4.8	5.0	1.4		SCHEDULED	EUTH	DAY	128
74667	11.5	6.3	6.9	-4.4		SCHEDULED	EUTH	DAY	128
74671	0.0	1.2	6.5	4.3		SCHEDULED	EUTH	DAY	128
74673	3.6	4.3	0.5	-1.2		SCHEDULED	EUTH	DAY	129
74676	8.1	1.0	5.4	-2.7		SCHEDULED	EUTH	DAY	132
74685	3.2	5.6	0.5	3.7		SCHEDULED	EUTH	DAY	132
74689	5.0	6.3	5.4	0.6		SCHEDULED	EUTH	DAY	132
74690	3.2	14.3	3.1	-4.4		SCHEDULED	EUTH	DAY	128
74704	1.1	5.5	-4.0	3.1	-5.9	SCHEDULED	EUTH	DAY	133
74708	5.5	1.7	-0.5	-1.2	4.5	SCHEDULED	EUTH	DAY	133
74709	7.4	0.0	5.3	4.6		SCHEDULED	EUTH	DAY	129
74712	3.8	-1.1	4.9	5.8		SCHEDULED	EUTH	DAY	129

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 145 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 500 PPM

PAGE 20

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74715	9.7	4.0	1.2	1.3	-1.3	SCHEDULED EUTH DAY	133	
74722	8.6	5.1	2.4	1.2	8.7	SCHEDULED EUTH DAY	133	
74729	4.4	5.1	7.1	-3.1	SCHEDULED EUTH DAY	129		
74733	4.8	9.7	4.2	1.1	-3.7	SCHEDULED EUTH DAY	133	
MEAN	5.0	4.7	3.0	0.9	1.4			
S.D.	3.37	3.22	2.93	3.86	5.17			
N	30	30	30	30	8			

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 145 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 MALE GROUP: 1000 PPM

PAGE 21

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74606	0.0	6.6	3.8	0.0	5.4	SCHEDULED	EUTH	DAY	133
74607	-2.1	8.9	1.5	-1.8		SCHEDULED	EUTH	DAY	128
74608	7.4	5.6	4.6	-5.0		SCHEDULED	EUTH	DAY	132
74611	5.1	8.2	-7.4	6.0		SCHEDULED	EUTH	DAY	129
74615	0.5	6.6	2.6	-3.2		SCHEDULED	EUTH	DAY	128
74617	3.4	7.9	5.1	1.8		SCHEDULED	EUTH	DAY	132
74618	5.6	8.6	2.1	-6.5		SCHEDULED	EUTH	DAY	129
74619	7.9	7.9	-6.0	-10.9	5.6	SCHEDULED	EUTH	DAY	133
74622	2.1	2.6	10.3	-9.3		SCHEDULED	EUTH	DAY	129
74638	5.8	10.2	1.6	-9.5	0.0	SCHEDULED	EUTH	DAY	133
74639	-2.3	0.0	6.5	6.5		SCHEDULED	EUTH	DAY	132
74650	2.0	7.9	-4.4	5.4	-0.6	SCHEDULED	EUTH	DAY	133
74661	8.2	2.7	5.7	5.0		SCHEDULED	EUTH	DAY	129
74668	8.6	9.4	6.9	0.0	8.7	SCHEDULED	EUTH	DAY	133
74670	-0.5	6.1	5.8	3.8		SCHEDULED	EUTH	DAY	129
74674	-0.5	3.7	1.1	-4.5		SCHEDULED	EUTH	DAY	132
74675	8.3	2.3	4.2	1.3		SCHEDULED	EUTH	DAY	128
74679	-1.1	6.6	4.0	-6.2		SCHEDULED	EUTH	DAY	128
74683	-2.7	8.9	3.7	1.6		SCHEDULED	EUTH	DAY	128
74684	3.8	6.9	4.0	-4.3		SCHEDULED	EUTH	DAY	128
74691	0.0	4.3	3.0	5.6	1.2	SCHEDULED	EUTH	DAY	133
74693	3.3	10.8	3.7	5.1		SCHEDULED	EUTH	DAY	132
74699	-0.5	0.0	3.6	8.5	4.2	SCHEDULED	EUTH	DAY	133
74706	-0.5	3.1	1.5	6.0		SCHEDULED	EUTH	DAY	132
74710	-7.5	-21.8	17.7	5.4		SCHEDULED	EUTH	DAY	129
74717	2.9	1.9	4.3	1.9		SCHEDULED	EUTH	DAY	129

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 145 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 1000 PPM

PAGE 22

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74719	2.0	7.9	1.6	-0.6	SCHEDULED EUTH DAY	132
74727	-2.9	0.0	7.1	2.4	SCHEDULED EUTH DAY	132
74734	9.0	0.5	4.9	-2.4	SCHEDULED EUTH DAY	128
74735	6.5	4.5	4.4	2.0	SCHEDULED EUTH DAY	128
MEAN	2.4	4.6	3.6	0.1	3.5	
S.D.	4.20	5.94	4.53	5.32	3.41	
N	30	30	30	30	7	

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 145 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 2500 PPM

PAGE 23

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74624	6.5	0.0	5.0	3.9		SCHEDULED EUTH DAY	128		
74628	6.6	8.2	0.5	3.4		SCHEDULED EUTH DAY	132		
74629	1.8	4.2	0.0	0.7		SCHEDULED EUTH DAY	129		
74631	-0.5	4.2	-4.2	8.1		SCHEDULED EUTH DAY	129		
74635	5.5	4.8	4.0	-2.4	3.0	SCHEDULED EUTH DAY	133		
74640	3.2	8.5	-5.1	5.4		SCHEDULED EUTH DAY	128		
74643	3.8	9.2	-1.1	-5.0		SCHEDULED EUTH DAY	132		
74646	-3.7	2.6	5.6	3.3		SCHEDULED EUTH DAY	129		
74647	4.4	5.2	2.6	-1.1		SCHEDULED EUTH DAY	132		
74649	6.6	9.2	-1.1	0.6	-7.5	SCHEDULED EUTH DAY	133		
74652	6.3	4.0	7.7	1.2		SCHEDULED EUTH DAY	129		
74653	-2.9	5.7	5.7	6.0		SCHEDULED EUTH DAY	132		
74658	1.9	4.2	0.6	4.8		SCHEDULED EUTH DAY	128		
74659	1.6	8.0	0.0	6.8	0.6	SCHEDULED EUTH DAY	133		
74663	4.8	6.0	4.8	0.7		SCHEDULED EUTH DAY	128		
74680	12.2	8.2	0.6	3.0	-5.6	SCHEDULED EUTH DAY	133		
74688	3.7	3.1	6.1	0.6		SCHEDULED EUTH DAY	128		
74692	-5.2	4.8	1.3	0.0		SCHEDULED EUTH DAY	129		
74695	10.8	6.0	9.7	2.6		SCHEDULED EUTH DAY	132		
74697	4.4	8.2	-1.1	-11.2	5.8	SCHEDULED EUTH DAY	133		
74702	-3.6	1.2	4.8	1.2		SCHEDULED EUTH DAY	129		
74703	6.0	13.7	3.4	1.9	-17.1	SCHEDULED EUTH DAY	133		
74705	-10.4	-2.6	15.9	-5.0	2.9	SCHEDULED EUTH DAY	133		
74713	11.1	6.6	3.2	-4.2		SCHEDULED EUTH DAY	128		
74718	4.1	5.9	3.9	4.8	-5.1	SCHEDULED EUTH DAY	133		
74720	4.0	4.9	1.2	5.0		SCHEDULED EUTH DAY	129		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 145 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 2500 PPM

PAGE 24

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74723	6.3	4.4	7.7	2.5	SCHEDULED EUTH DAY	129
74725	4.2	7.4	4.0	4.0	SCHEDULED EUTH DAY	132
74726	4.8	-1.0	9.2	3.4	SCHEDULED EUTH DAY	132
74728	-4.8	9.0	5.5	3.3	SCHEDULED EUTH DAY	128
MEAN	3.1	5.5	3.3	1.6	-2.9	
S.D.	5.08	3.37	4.33	4.05	7.48	
N	30	30	30	30	8	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 0 PPM

PAGE 1

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74737	0.8	5.9	NA	5.6	12.9	9.0	6.8	7.5
74740	0.0	11.4	NA	15.9	4.8	9.8	2.3	11.3
74745	4.1	9.3	NA	11.0	10.9	7.7	5.0	0.6
74749	-1.8	9.0	NA	13.6	8.4	7.5	6.5	2.1
74756	-3.2	9.5	NA	17.7	4.8	12.3	1.3	2.7
74757	-14.3	15.3	NA	22.2	3.2	9.0	6.8	4.5
74759	3.2	3.6	NA	13.4	7.1	7.1	4.8	9.5
74764	0.0	6.5	NA	15.7	5.7	8.4	9.9	6.2
74767	0.0	5.9	NA	17.3	9.3	5.7	2.0	13.0
74772	-5.1	8.7	NA	26.4	6.8	10.2	3.9	9.1
74773	-11.0	14.3	NA	16.3	13.7	8.7	2.5	7.1
74774	4.0	6.0	NA	15.0	11.7	12.9	7.8	4.5
74779	-3.6	10.5	NA	12.1	6.8	9.3	8.8	0.7
74789	0.8	6.3	NA	17.6	7.1	9.5	6.8	4.5
74794	-1.6	7.9	NA	18.0	12.2	8.8	4.5	8.4
74804	3.2	9.5	NA	11.3	10.0	7.5	0.8	-0.8
74808	-1.7	12.1	NA	15.7	10.4	8.4	5.8	0.0
74810	6.5	3.4	NA	14.3	2.1	6.1	5.8	7.1
74815	-0.8	6.8	NA	18.0	8.3	6.4	9.5	7.5
74826	0.0	9.2	NA	16.7	11.3	13.6	-1.4	12.2
74828	-3.4	13.5	NA	14.3	-1.4	14.3	6.8	5.8
74829	-0.8	8.3	NA	17.7	-0.7	16.8	0.0	5.8
74840	-7.1	14.3	NA	23.3	6.8	12.8	4.5	1.5
74841	1.8	3.6	NA	15.1	5.9	6.3	4.0	4.5
74842	1.0	8.4	NA	18.3	6.4	5.7	14.9	1.9
74844	2.1	7.9	NA	10.9	10.9	9.7	3.2	5.6

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 0 PPM

PAGE 2

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74845	2.4	9.5	NA	15.6	6.1	13.0	8.3	4.3
74854	0.0	6.8	NA	11.3	12.2	6.8	11.7	3.2
74864	6.8	6.5	NA	12.0	2.7	14.3	7.5	0.0
74867	0.8	5.7	NA	17.1	6.4	8.8	4.5	8.4
MEAN	-0.6	8.5		15.6	7.4	9.5	5.5	5.3
S.D.	4.53	3.16		4.05	3.85	2.93	3.53	3.71
N	30	30		30	30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 500 PPM

PAGE 3

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74742	2.5	4.8	10.0	12.0	10.0	4.5	6.1	7.1
74746	-3.2	10.3	0.8	13.5	-1.6	15.7	2.9	10.0
74753	-1.9	10.3	4.3	18.6	6.8	17.7	5.8	13.0
74761	-30.2	15.0	0.8	15.7	2.3	17.9	1.4	12.9
74762	1.0	5.6	5.0	7.1	14.3	5.6	5.0	2.4
74765	-0.8	8.4	0.9	20.5	11.9	0.8	12.8	6.3
74782	6.8	2.9	3.6	13.6	11.6	6.5	5.4	1.5
74785	0.8	7.9	10.0	17.0	8.4	9.3	4.3	7.8
74790	-14.3	15.9	8.7	9.5	6.8	15.8	3.0	4.5
74796	4.0	5.3	10.9	14.9	6.8	10.7	6.5	9.9
74797	-4.8	11.9	7.9	6.3	8.8	9.5	-1.5	6.0
74798	-4.5	12.8	1.5	18.6	9.1	17.1	-7.1	6.2
74802	1.5	7.9	1.4	15.0	3.0	11.4	-1.3	9.7
74805	2.1	4.2	5.6	19.5	14.3	11.7	2.7	10.2
74809	-7.7	12.8	0.0	13.4	8.7	10.5	8.7	1.6
74812	2.3	8.4	-4.2	17.7	13.6	8.2	1.4	9.7
74816	-1.7	11.9	1.6	18.6	12.9	7.9	7.1	5.3
74819	4.5	9.0	6.0	15.6	12.3	13.6	1.4	-0.7
74823	-1.9	13.5	7.9	17.5	7.8	13.0	10.4	5.2
74824	-1.7	8.7	-5.0	19.8	8.7	12.8	-4.0	9.3
74835	1.9	5.7	4.2	8.9	10.1	0.0	12.0	11.3
74838	0.8	11.4	1.5	16.1	6.4	11.4	1.3	8.4
74839	2.3	2.7	10.0	17.1	8.6	7.5	6.1	5.4
74846	-3.6	12.0	-2.4	16.5	9.0	9.7	4.5	1.3
74856	8.8	1.6	7.9	14.3	11.3	5.0	7.5	14.3
74859	3.4	5.7	4.5	10.0	16.1	12.3	0.0	0.8

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 500 PPM

PAGE 4

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74861	-0.9	10.3	3.6	18.8	11.4	9.3	7.5	6.8
74863	4.3	7.5	5.7	10.9	13.0	11.8	4.3	0.6
74869	2.9	4.2	3.2	16.7	12.8	6.8	-0.8	7.5
74873	0.7	8.3	-5.4	19.3	8.7	7.5	3.7	9.7
MEAN	-0.9	8.6	3.7	15.1	9.5	10.1	3.9	6.8
S.D.	7.10	3.77	4.48	3.89	3.82	4.50	4.46	4.02
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

PAGE 5

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74738	3.0	3.0	8.8	11.4	-2.3	14.3	-0.8	5.6
74739	0.0	9.8	3.0	16.7	4.8	7.5	11.4	9.3
74743	3.4	8.3	8.3	15.0	10.7	7.1	7.1	12.8
74744	-5.1	9.8	7.1	12.5	8.4	7.1	7.9	6.7
74748	-1.8	10.5	2.3	15.9	13.6	6.8	0.0	8.6
74752	0.8	6.8	4.5	15.0	8.4	11.3	-0.6	4.2
74766	-9.9	11.9	3.4	18.5	2.0	9.0	4.5	6.0
74777	0.8	10.5	4.3	19.3	13.0	7.1	1.9	11.7
74780	-9.9	14.3	4.2	10.7	19.0	10.5	6.8	5.0
74791	-6.1	11.8	4.2	16.8	-1.7	4.2	20.4	0.8
74793	4.5	3.2	2.3	16.3	9.3	8.2	2.6	11.0
74795	6.5	0.8	7.9	3.6	19.9	6.2	0.7	3.6
74799	2.3	10.3	7.9	11.3	9.5	1.4	10.9	-2.0
74801	-0.8	9.3	5.0	14.3	10.0	10.0	1.4	5.0
74806	-6.0	11.4	2.9	17.6	6.7	14.3	6.0	7.5
74818	2.9	6.8	5.0	15.0	6.9	10.9	6.5	8.4
74820	1.6	9.5	2.3	12.8	9.5	9.8	2.0	6.4
74821	-1.5	0.8	9.0	5.0	11.2	12.4	5.6	1.3
74830	0.9	10.3	3.2	4.8	13.5	14.3	-3.6	0.0
74831	-7.6	14.3	13.6	10.2	5.2	11.2	7.5	2.0
74834	6.8	3.8	6.8	12.8	11.4	6.2	6.8	8.6
74847	0.9	5.4	1.7	19.3	5.9	12.8	6.0	3.6
74848	4.1	7.6	4.5	16.5	11.3	5.7	8.6	6.8
74849	-3.6	11.8	6.7	12.7	6.0	17.9	8.2	5.2
74850	-8.6	15.8	2.3	13.5	6.3	2.4	11.4	2.1
74855	5.3	7.1	5.0	5.6	8.8	7.1	-19.8	34.3

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

PAGE 6

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74858	0.0	6.4	-1.7	16.3	13.6	8.8	0.0	3.4
74865	3.6	8.6	4.3	16.3	14.3	9.9	7.7	-0.6
74868	-4.2	11.7	5.4	15.6	8.4	9.7	6.8	5.4
74871	7.6	7.9	6.3	15.1	11.9	-2.3	13.6	8.6
MEAN	-0.3	8.7	5.0	13.5	9.2	8.7	4.9	6.4
S.D.	5.00	3.78	2.91	4.24	4.96	4.18	6.83	6.40
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74747	-15.6	9.8	6.3	11.1	11.3	9.8	8.6	0.0
74750	0.9	7.9	5.9	16.7	5.6	10.0	6.4	7.9
74751	0.8	8.6	3.8	11.3	6.4	10.7	8.2	-3.0
74754	-2.1	7.1	0.8	15.8	5.3	12.1	4.3	0.0
74755	-3.8	7.9	-2.9	20.7	3.6	11.4	3.4	3.4
74768	0.0	10.7	7.9	12.8	10.0	7.1	6.4	6.8
74769	-3.6	12.5	0.8	13.6	19.3	5.4	7.5	8.7
74770	-4.5	14.3	6.8	12.8	5.7	16.9	7.8	0.0
74781	0.0	7.5	0.0	12.8	15.0	7.5	7.9	7.1
74784	0.8	9.8	0.0	15.1	7.1	12.8	2.3	0.8
74786	1.7	7.9	3.4	17.1	6.8	10.3	6.8	3.0
74787	2.3	6.3	3.2	12.0	7.5	8.2	5.7	8.2
74792	4.3	2.3	6.4	15.0	2.4	7.5	4.8	6.8
74800	3.6	5.3	2.3	8.3	0.8	15.0	3.6	4.3
74803	0.8	7.6	3.4	16.3	7.5	5.8	11.2	7.5
74807	8.4	7.6	7.1	20.6	10.2	9.0	9.8	7.1
74811	-0.8	10.3	2.3	12.0	14.3	7.5	9.5	-2.9
74813	0.8	9.5	6.3	15.0	7.9	9.3	1.5	-19.8
74817	-2.7	10.1	0.0	23.3	6.0	0.8	17.9	-1.6
74822	-4.2	11.6	3.8	12.0	6.1	12.3	9.1	4.5
74827	-8.2	14.3	5.7	11.9	5.7	9.5	11.0	5.4
74832	0.8	6.7	-5.6	19.8	3.2	15.0	0.8	7.1
74833	-0.8	10.1	0.8	10.3	15.0	7.9	8.6	0.7
74836	1.7	6.7	0.0	15.0	12.3	6.8	5.2	3.4
74853	-2.5	12.1	4.5	17.3	4.3	12.9	3.2	3.6
74857	4.5	7.9	2.5	20.7	2.1	16.5	13.6	2.9

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 2500 PPM

PAGE 8

DAY	0 TO 1	1 TO 4	4 TO 7	7 TO 14	14 TO 21	21 TO 28	28 TO 35	35 TO 42
ANIMAL								
74860	-8.2	8.7	10.7	7.6	7.1	9.5	10.0	3.0
74862	1.8	3.6	8.7	20.2	0.0	7.1	1.6	14.3
74866	1.6	2.4	8.2	18.4	5.2	11.3	10.7	7.5
74870	6.2	6.5	10.7	16.1	8.3	7.7	7.7	8.7
MEAN	-0.5	8.5	3.8	15.1	7.4	9.8	7.2	3.5
S.D.	4.68	2.96	3.84	3.92	4.46	3.49	3.81	5.92
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 0 PPM

PAGE 9

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74737	7.1	-9.0	12.8	0.0	NA	NA	NA	NA
74740	6.0	5.0	-2.3	9.0	NA	NA	NA	NA
74745	11.8	6.3	1.2	3.2	NA	NA	-1.8	2.1
74749	11.6	-1.4	4.5	-2.3	NA	NA	NA	NA
74756	8.8	2.5	6.5	5.2	NA	NA	-3.6	4.1
74757	12.8	0.0	0.0	10.5	NA	NA	NA	NA
74759	3.4	-2.7	10.1	4.2	NA	NA	NA	NA
74764	1.4	5.2	0.7	5.0	NA	NA	NA	NA
74767	4.8	6.2	3.1	2.3	NA	NA	NA	NA
74772	7.1	-1.4	6.4	9.3	NA	NA	NA	NA
74773	7.5	0.0	-1.3	8.8	NA	NA	NA	NA
74774	8.2	1.3	3.4	-0.7	NA	NA	NA	NA
74779	7.5	0.7	2.1	9.3	NA	NA	NA	NA
74789	4.5	2.9	6.0	3.8	NA	NA	NA	NA
74794	6.8	11.2	12.2	0.0	NA	NA	NA	NA
74804	15.0	3.8	-3.0	0.0	NA	NA	NA	NA
74808	14.3	-1.9	5.8	5.8	NA	NA	NA	NA
74810	3.9	-7.1	11.4	5.7	NA	NA	NA	NA
74815	4.3	3.4	6.4	1.7	NA	NA	0.0	-2.3
74826	13.6	-1.2	-0.8	-6.5	NA	NA	NA	NA
74828	8.4	-5.0	2.7	0.8	NA	NA	NA	NA
74829	11.7	-0.7	0.7	1.4	NA	NA	NA	NA
74840	9.0	8.6	-2.3	2.5	NA	NA	NA	NA
74841	3.6	-2.5	10.1	5.9	NA	NA	NA	NA
74842	7.9	4.5	-6.4	6.4	NA	NA	5.0	-7.6
74844	8.4	2.7	2.7	-0.7	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 10

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74845	8.7	0.6	9.9	3.2	NA	NA	NA	NA
74854	7.5	-2.0	4.3	3.6	NA	NA	NA	NA
74864	11.7	-1.3	4.8	3.1	NA	NA	NA	NA
74867	8.2	-5.7	1.5	7.5	NA	NA	NA	NA
MEAN	8.2	0.8	3.8	3.6			-0.1	-0.9
S.D.	3.45	4.55	4.85	3.91			3.70	5.19
N	30	30	30	30			4	4

NA = NOT APPLICABLE

1129 of 3891

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 500 PPM

PAGE 11

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74742	6.8	-0.7	7.1	10.0	NA	NA	NA	NA
74746	5.7	-0.8	7.1	4.3	NA	NA	NA	NA
74753	2.0	2.7	2.0	1.4	NA	NA	NA	NA
74761	2.9	-1.5	3.8	3.8	NA	NA	NA	NA
74762	6.3	4.8	-4.5	9.0	NA	NA	NA	NA
74765	6.3	-2.4	13.5	5.6	NA	NA	NA	NA
74782	7.1	8.4	4.1	1.9	NA	NA	NA	NA
74785	2.1	-1.4	15.0	3.6	NA	NA	NA	NA
74790	3.8	6.4	7.5	-5.3	NA	NA	NA	NA
74796	1.9	1.8	8.6	4.3	NA	NA	NA	NA
74797	4.1	2.3	8.2	-1.5	NA	NA	NA	NA
74798	9.7	-7.1	2.9	8.2	NA	NA	NA	NA
74802	5.8	-3.4	4.8	1.9	NA	NA	NA	NA
74805	7.1	-4.5	4.3	5.3	NA	NA	NA	EUTH IN EXTREMIS DAY 94
74809	0.8	10.5	2.5	0.8	NA	NA	NA	NA
74812	11.6	0.7	-1.4	6.4	NA	NA	NA	NA
74816	7.9	-1.4	6.4	8.3	NA	NA	37.3	NA
74819	9.5	5.2	-0.7	4.3	NA	NA	NA	NA
74823	6.8	8.1	1.4	1.4	NA	NA	NA	NA
74824	8.3	-0.8	2.4	0.8	NA	NA	NA	NA
74835	1.6	0.0	3.4	9.2	NA	NA	NA	NA
74838	12.3	0.6	-1.4	4.3	NA	NA	NA	NA
74839	5.4	2.7	1.4	10.0	NA	NA	NA	NA
74846	17.0	-7.8	13.0	6.5	NA	NA	NA	NA
74856	4.3	-5.0	10.2	12.1	NA	NA	NA	NA
74859	5.7	8.6	0.7	-3.8	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 12

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74861	7.1	-3.8	0.0	14.3	NA	NA	NA	NA
74863	11.8	1.4	3.6	-0.7	NA	NA	NA	NA
74869	7.1	3.0	-4.0	5.6	NA	NA	NA	NA
74873	6.5	-4.4	28.6	-6.6	NA	NA	NA	NA
MEAN	6.5	0.7	5.0	4.2			37.3	
S.D.	3.60	4.72	6.56	4.93			0.00	
N	30	30	30	30			1	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

PAGE 13

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74738	6.0	-2.3	-1.5	12.9	NA	NA	NA	NA
74739	3.0	-2.9	5.0	4.5	NA	NA	NA	NA
74743	1.5	-3.0	8.8	6.0	NA	NA	NA	NA
74744	0.8	7.9	5.6	4.0	NA	NA	NA	NA
74748	12.9	-5.0	23.8	-8.6	NA	NA	NA	NA
74752	10.4	1.2	0.0	9.5	NA	NA	NA	NA
74766	0.8	5.3	5.6	3.4	NA	NA	NA	NA
74777	-1.4	11.0	3.7	-2.7	NA	NA	NA	NA
74780	10.7	4.1	10.2	-0.8	NA	NA	NA	NA
74791	6.8	5.7	6.0	5.7	NA	NA	NA	NA
74793	2.0	4.5	-0.7	3.2	NA	NA	NA	NA
74795	9.1	6.8	-5.2	14.9	NA	NA	NA	NA
74799	15.6	-2.1	0.0	1.4	NA	NA	NA	NA
74801	5.7	1.5	-1.4	10.0	NA	NA	NA	NA
74806	8.6	-0.8	0.0	8.3	NA	NA	NA	NA
74818	4.1	0.0	4.3	0.0	NA	NA	-1.6	0.0
74820	7.5	4.3	-1.4	10.0	NA	NA	NA	NA
74821	11.8	2.6	0.6	5.8	NA	NA	NA	NA
74830	17.1	0.7	0.8	2.1	NA	NA	22.1	NA
74831	-2.6	8.1	4.5	4.5	NA	NA	NA	NA
74834	5.7	1.4	5.7	7.1	NA	NA	NA	NA
74847	10.0	2.1	-0.8	9.0	NA	NA	NA	NA
74848	4.8	4.3	-1.6	8.3	NA	NA	NA	NA
74849	2.6	4.8	4.3	3.4	NA	NA	NA	NA
74850	12.9	-7.1	10.7	2.3	NA	NA	NA	NA
74855	8.3	0.0	5.2	7.1	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

PAGE 14

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74858	8.1	-2.9	2.1	8.8	NA	NA	NA	NA
74865	8.6	5.1	4.0	1.2	NA	NA	NA	NA
74868	8.3	1.9	7.1	-0.6	NA	NA	NA	NA
74871	8.3	-9.0	9.3	9.0	NA	NA	NA	NA
MEAN	6.9	1.6	3.8	5.0		10.3	0.0	
S.D.	4.79	4.61	5.49	4.90		16.76	0.00	
N	30	30	30	30		2	1	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 15

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74747	12.9	-1.7	-1.6	8.6	NA	NA	NA	NA
74750	5.7	-0.8	4.8	3.2	NA	NA	NA	NA
74751	5.7	5.0	0.0	2.9	NA	NA	NA	NA
74754	9.3	2.1	3.0	8.8	NA	NA	NA	NA
74755	10.9	-3.6	4.3	7.5	NA	NA	NA	NA
74768	5.3	3.6	3.0	5.7	NA	NA	NA	NA
74769	-1.9	7.1	5.0	2.9	NA	NA	NA	NA
74770	13.0	3.7	1.4	0.0	NA	NA	NA	NA
74781	7.9	-1.6	0.0	11.7	NA	NA	NA	NA
74784	4.5	0.8	0.8	7.6	NA	NA	NA	NA
74786	6.8	-1.8	6.5	7.8	NA	NA	NA	NA
74787	8.8	0.0	-1.5	7.9	NA	NA	NA	NA
74792	3.2	2.4	2.4	6.3	NA	NA	NA	NA
74800	7.5	-6.4	9.7	-4.3	NA	NA	NA	NA
74803	3.2	-2.3	4.2	6.5	NA	NA	NA	NA
74807	6.0	0.7	10.7	3.8	NA	NA	NA	NA
74811	18.2	-1.2	-9.2	13.5	NA	NA	NA	NA
74813	15.3	9.3	0.8	4.0	NA	NA	NA	NA
74817	6.0	5.7	3.8	16.8	NA	NA	NA	NA
74822	3.9	4.5	-0.7	5.4	NA	NA	NA	NA
74827	-2.0	6.8	7.9	0.7	NA	NA	NA	NA
74832	10.3	-1.5	2.4	6.8	NA	NA	NA	NA
74833	10.9	20.6	9.5	-17.5	NA	NA	NA	NA
74836	7.1	1.4	4.3	-0.7	NA	NA	NA	NA
74853	9.3	0.7	4.3	6.1	NA	NA	NA	NA
74857	11.7	-3.6	3.6	17.4	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 2500 PPM

PAGE 16

DAY	42 TO 49	49 TO 56	56 TO 63	63 TO 70	70 TO 77	77 TO 84	84 TO 91	91 TO 98
ANIMAL								
74860	6.4	6.8	0.0	1.5	NA	NA	NA	NA
74862	0.0	11.1	2.3	1.5	NA	NA	NA	NA
74866	6.2	-0.6	11.0	1.2	NA	NA	NA	NA
74870	1.9	0.0	7.5	0.7	NA	NA	NA	NA
MEAN	7.1	2.2	3.3	4.8				
S.D.	4.67	5.35	4.25	6.47				
N	30	30	30	30				

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 0 PPM

PAGE 17

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74737	NA	NA	NA	NA		SCHEDULED	EUTH DAY	129
74740	NA	NA	NA	NA		SCHEDULED	EUTH DAY	129
74745	-2.7	1.9	7.1	7.4		SCHEDULED	EUTH DAY	129
74749	NA	1.4	-1.6	2.9		SCHEDULED	EUTH DAY	129
74756	-1.4	7.1	-2.0	9.3		SCHEDULED	EUTH DAY	129
74757	NA	NA	NA	NA	2.9	SCHEDULED	EUTH DAY	133
74759	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128
74764	NA	NA	NA	NA	-2.4	SCHEDULED	EUTH DAY	133
74767	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128
74772	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128
74773	NA	NA	NA	NA	6.5	SCHEDULED	EUTH DAY	133
74774	NA	NA	NA	NA		SCHEDULED	EUTH DAY	132
74779	7.1	-1.4	2.4	3.6	2.3	SCHEDULED	EUTH DAY	133
74789	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128
74794	7.1	2.7	-1.4	9.7	4.1	SCHEDULED	EUTH DAY	133
74804	NA	NA	NA	NA	-21.1	SCHEDULED	EUTH DAY	133
74808	NA	NA	NA	NA		SCHEDULED	EUTH DAY	132
74810	NA	NA	NA	NA		SCHEDULED	EUTH DAY	129
74815	6.8	-2.9	3.4	9.3		SCHEDULED	EUTH DAY	132
74826	NA	NA	NA	NA		SCHEDULED	EUTH DAY	132
74828	2.0	4.1	-8.4	10.2		SCHEDULED	EUTH DAY	129
74829	NA	NA	NA	NA	-7.1	SCHEDULED	EUTH DAY	133
74840	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128
74841	NA	NA	NA	NA		SCHEDULED	EUTH DAY	132
74842	-17.1	1.0	26.0	10.0		SCHEDULED	EUTH DAY	128
74844	NA	NA	NA	NA		SCHEDULED	EUTH DAY	128

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 0 PPM

PAGE 18

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74845	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74854	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74864	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74867	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
MEAN	0.3	1.7	3.2	7.8	-2.1	
S.D.	8.68	3.10	10.29	2.94	9.51	
N	7	8	8	8	7	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 500 PPM

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133			
ANIMAL								
74742	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74746	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74753	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74761	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74762	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74765	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74782	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74785	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74790	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74796	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74797	NA	NA	NA	NA	9.1 SCHEDULED EUTH DAY	133		
74798	NA	NA	NA	NA	1.3 SCHEDULED EUTH DAY	133		
74802	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74809	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74812	NA	NA	NA	NA	-1.2 SCHEDULED EUTH DAY	133		
74816	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74819	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74823	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74824	NA	NA	NA	NA	7.1 SCHEDULED EUTH DAY	133		
74835	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74838	NA	NA	NA	NA	SCHEDULED EUTH DAY	132		
74839	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		
74846	NA	NA	NA	NA	14.9 SCHEDULED EUTH DAY	133		
74856	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74859	NA	NA	NA	NA	SCHEDULED EUTH DAY	129		
74861	NA	NA	NA	NA	SCHEDULED EUTH DAY	128		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 500 PPM

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133		
ANIMAL							
74863	NA	NA	NA	NA	10.6	SCHEDULED EUTH DAY	133
74869	NA	NA	NA	NA		SCHEDULED EUTH DAY	132
74873	1.4	8.6	6.3	0.7	-0.8	SCHEDULED EUTH DAY	133
MEAN	1.4	8.6	6.3	0.7	5.9		
S.D.	0.00	0.00	0.00	0.00	6.21		
N	1	1	1	1	7		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74738	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74739	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74743	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74744	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74748	NA	NA	NA	NA	8.7 SCHEDULED EUTH DAY	133			
74752	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74766	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74777	-3.0	-10.5	8.3	14.3	SCHEDULED EUTH DAY	129			
74780	NA	NA	NA	NA	0.0 SCHEDULED EUTH DAY	133			
74791	NA	NA	NA	NA	10.5 SCHEDULED EUTH DAY	133			
74793	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74795	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74799	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74801	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74806	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74818	4.8	3.2	5.0	7.5	SCHEDULED EUTH DAY	129			
74820	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74821	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74830	NA	NA	NA	NA	-1.4 SCHEDULED EUTH DAY	133			
74831	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74834	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74847	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74848	NA	NA	NA	NA	6.8 SCHEDULED EUTH DAY	133			
74849	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74850	NA	NA	NA	NA	-13.5 SCHEDULED EUTH DAY	133			
74855	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 1000 PPM

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133	
ANIMAL						
74858	NA	NA	NA	NA	SCHEDULED EUTH DAY	132
74865	NA	-3.1	5.1	-0.6	SCHEDULED EUTH DAY	132
74868	NA	NA	NA	NA	SCHEDULED EUTH DAY	128
74871	NA	NA	NA	NA	-2.9 SCHEDULED EUTH DAY	133
MEAN	0.9	-3.5	6.1	7.1	1.2	
S.D.	5.52	6.86	1.88	7.46	8.32	
N	2	3	3	3	7	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 2500 PPM

DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74747	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74750	6.7	1.6	-4.5	14.3	SCHEDULED EUTH DAY	132			
74751	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74754	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74755	NA	NA	NA	NA	10.1 SCHEDULED EUTH DAY	133			
74768	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74769	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74770	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74781	NA	NA	0.6	9.7	SCHEDULED EUTH DAY	132			
74784	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74786	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74787	NA	NA	NA	NA	-2.7 SCHEDULED EUTH DAY	133			
74792	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74800	NA	-20.0	11.4	-12.0	SCHEDULED EUTH DAY	132			
74803	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			
74807	NA	NA	NA	NA	-4.0 SCHEDULED EUTH DAY	133			
74811	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74813	NA	NA	NA	NA	2.6 SCHEDULED EUTH DAY	133			
74817	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74822	NA	NA	NA	NA	3.1 SCHEDULED EUTH DAY	133			
74827	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74832	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74833	NA	NA	NA	NA	SCHEDULED EUTH DAY	132			
74836	NA	NA	NA	NA	4.5 SCHEDULED EUTH DAY	133			
74853	NA	NA	NA	NA	SCHEDULED EUTH DAY	129			
74857	NA	NA	NA	NA	SCHEDULED EUTH DAY	128			

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 146 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 2500 PPM

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DAY	98 TO 105	105 TO 112	112 TO 119	119 TO 126	126 TO 133				
ANIMAL									
74860	NA	NA	NA	NA	3.2	SCHEDULED EUTH DAY	133		
74862	NA	NA	NA	NA		SCHEDULED EUTH DAY	129		
74866	NA	NA	NA	NA	10.6	SCHEDULED EUTH DAY	133		
74870	NA	NA	NA	NA		SCHEDULED EUTH DAY	129		
MEAN	6.7	-9.2	2.5	4.0	3.4				
S.D.	0.00	15.27	8.12	14.05	5.22				
N	1	2	3	3	8				

NA = NOT APPLICABLE

PBFTSv4.25  
09/05/2002

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 1:			0 PPM					
74737	G		24.	23.	22.	25.	25.	24. DELIVERED
74740	G		18.	20.	20.	22.	24.	21. DELIVERED
74749	NG		20.	17.	21.	18.	15.	18. FAILED TO DELIVER DAY 54
74757	G		20.	24.	20.	19.	23.	21. DELIVERED
74759	G		17.	20.	22.	22.	23.	21. DELIVERED
74764	G		19.	25.	27.	24.	24.	24. DELIVERED
74767	G		20.	22.	20.	25.	25.	23. DELIVERED
74772	G		36.	23.	26.	25.	28.	28. DELIVERED
74773	G		23.	26.	27.	27.	27.	26. DELIVERED
74774	G		22.	27.	26.	27.	26.	25. DELIVERED
74779	NG		19.	21.	20.	20.	21.	20. FAILED TO DELIVER DAY 62
74789	G		18.	21.	21.	24.	24.	22. DELIVERED
74794	NG		18.	17.	17.	16.	20.	18. FAILED TO DELIVER DAY 60
74804	G		26.	27.	25.	24.	24.	25. DELIVERED
74808	G		24.	27.	25.	26.	27.	26. DELIVERED
74810	G		22.	25.	23.	25.	28.	25. DELIVERED
74826	G		19.	16.	24.	25.	26.	23. DELIVERED
74828	NG		20.	23.	21.	23.	19.	21. FAILED TO DELIVER DAY 58
74829	G		19.	25.	22.	21.	24.	22. DELIVERED
74840	G		17.	24.	21.	22.	22.	21. DELIVERED
74841	G		16.	21.	19.	21.	22.	20. DELIVERED
74844	G		14.	23.	24.	26.	28.	23. DELIVERED
74845	G		19.	23.	22.	22.	24.	22. DELIVERED
74854	G		18.	22.	23.	22.	24.	22. DELIVERED
74864	G		16.	26.	34.	24.	23.	24. DELIVERED
74867	G		22.	24.	22.	24.	24.	23. DELIVERED
MEAN			20.	23.	23.	24.	25.	23.
S.D.			4.6	2.7	3.3	2.1	1.9	2.0
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 147 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS								
DAMS FROM GROUP 2:			500 PPM					
74742	G		19.	25.	22.	21.	24.	22. DELIVERED
74746	G		21.	25.	23.	24.	25.	24. DELIVERED
74753	G		22.	27.	22.	26.	27.	25. DELIVERED
74761	G		19.	18.	22.	20.	23.	21. DELIVERED
74762	G		20.	23.	21.	24.	24.	22. DELIVERED
74765	G		17.	19.	21.	19.	22.	20. DELIVERED
74782	G		19.	24.	23.	25.	27.	24. DELIVERED
74785	G		18.	20.	20.	19.	20.	19. DELIVERED
74790	G		23.	22.	20.	21.	24.	22. DELIVERED
74796	G		20.	28.	29.	26.	27.	26. DELIVERED
74797	G		20.	26.	26.	28.	27.	25. DELIVERED
74798	G		18.	23.	22.	26.	29.	24. DELIVERED
74802	G		25.	31.	30.	28.	31.	29. DELIVERED
74805	G		18.	23.	22.	24.	26.	23. DELIVERED
74809	G		17.	22.	22.	21.	23.	21. DELIVERED
74812	G		14.	28.	24.	29.	29.	25. DELIVERED
74819	G		23.	24.	23.	22.	23.	23. DELIVERED
74823	G		18.	23.	26.	23.	23.	23. DELIVERED
74824	G		20.	25.	23.	23.	23.	23. DELIVERED
74835	G		19.	21.	20.	19.	23.	21. DELIVERED
74838	G		21.	24.	24.	25.	24.	23. DELIVERED
74839	G		21.	25.	24.	24.	26.	24. DELIVERED
74846	G		21.	25.	24.	22.	22.	23. DELIVERED
74856	G		24.	25.	23.	26.	27.	25. DELIVERED
74859	G		16.	21.	24.	24.	27.	23. DELIVERED
74861	G		19.	21.	24.	25.	26.	23. DELIVERED

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 147 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 3

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:			500 PPM					
74863	G		20.	26.	26.	26.	29.	26. DELIVERED
74869	G		16.	22.	20.	22.	24.	21. DELIVERED
74873	NG		16.	17.	20.	18.	20.	19. FAILED TO DELIVER DAY 61
MEAN			20.	24.	23.	24.	25.	23.
S.D.			2.5	2.9	2.5	2.8	2.6	2.1
N			28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 147 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 3:		1000 PPM							
74738	G	23.	23.	23.	22.	7.	18.	DELIVERED	
74739	G	20.	24.	23.	24.	26.	24.	DELIVERED	
74743	G	21.	25.	24.	25.	25.	24.	DELIVERED	
74744	G	20.	21.	20.	21.	25.	22.	DELIVERED	
74748	G	20.	21.	22.	24.	24.	22.	DELIVERED	
74752	G	27.	28.	27.	26.	28.	27.	DELIVERED	
74766	G	18.	20.	21.	21.	23.	21.	DELIVERED	
74777	NG	24.	23.	24.	22.	21.	23.	FAILED TO DELIVER DAY 58	
74780	G	19.	24.	23.	26.	25.	24.	DELIVERED	
74791	G	20.	21.	20.	20.	25.	22.	DELIVERED	
74793	G	25.	28.	27.	28.	29.	27.	DELIVERED	
74795	G	26.	29.	28.	27.	24.	26.	DELIVERED	
74799	G	25.	25.	25.	24.	24.	24.	DELIVERED	
74801	G	19.	20.	21.	21.	24.	21.	DELIVERED	
74806	G	24.	24.	24.	22.	24.	24.	DELIVERED	
74820	G	4.	1.	24.	32.	28.	19.	DELIVERED	
74821	G	24.	29.	27.	28.	25.	26.	DELIVERED	
74831	G	24.	26.	26.	24.	27.	25.	DELIVERED	
74834	G	19.	21.	21.	20.	21.	21.	DELIVERED	
74847	G	20.	22.	22.	21.	22.	21.	DELIVERED	
74848	G	19.	20.	21.	19.	24.	21.	DELIVERED	
74849	G	18.	26.	25.	27.	25.	24.	DELIVERED	
74850	G	19.	21.	21.	22.	22.	21.	DELIVERED	
74855	G	19.	23.	25.	25.	25.	24.	DELIVERED	
74858	G	18.	23.	24.	24.	21.	22.	DELIVERED	
74865	G	22.	25.	25.	25.	24.	24.	FAILED TO DELIVER DAY 58	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 147 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 5

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 3:			1000 PPM					
74868	G		22.	25.	25.	27.	30.	26. DELIVERED
74871	G		21.	22.	21.	14.	18.	19. DELIVERED
MEAN			21.	23.	24.	24.	24.	23.
S.D.			4.2	5.2	2.3	3.6	4.2	2.4
N			27	27	27	27	27	27

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 147 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 4:		2500 PPM							
74747	G	17.	23.	10.	24.	22.	19.	DELIVERED	
74750	NG	19.	21.	20.	18.	17.	19.	FAILED TO DELIVER DAY 60	
74751	G	22.	19.	23.	22.	25.	22.	DELIVERED	
74754	G	19.	15.	25.	24.	27.	23.	DELIVERED	
74755	G	22.	22.	22.	26.	25.	24.	DELIVERED	
74768	G	21.	22.	21.	21.	23.	22.	DELIVERED	
74769	G	22.	22.	26.	30.	32.	27.	DELIVERED	
74770	G	22.	20.	20.	18.	24.	21.	DELIVERED	
74781	NG	16.	20.	17.	22.	22.	19.	FAILED TO DELIVER DAY 50	
74784	G	4.	3.	20.	24.	22.	15.	DELIVERED	
74786	G	26.	22.	27.	25.	27.	26.	DELIVERED	
74787	G	8.	25.	26.	26.	25.	22.	DELIVERED	
74792	G	19.	21.	21.	21.	21.	21.	DELIVERED	
74800	G	19.	22.	23.	22.	18.	20.	FAILED TO DELIVER DAY 57	
74803	G	18.	24.	23.	24.	22.	22.	DELIVERED	
74807	G	20.	22.	23.	22.	23.	22.	DELIVERED	
74811	G	14.	23.	17.	28.	28.	22.	DELIVERED	
74813	G	17.	20.	19.	21.	24.	20.	DELIVERED	
74817	G	18.	20.	21.	22.	26.	22.	DELIVERED	
74822	G	24.	22.	25.	24.	25.	24.	DELIVERED	
74827	G	24.	25.	25.	25.	26.	25.	DELIVERED	
74832	G	19.	20.	21.	21.	22.	21.	DELIVERED	
74833	G	18.	23.	24.	23.	22.	22.	DELIVERED	
74836	G	8.	23.	25.	26.	27.	22.	DELIVERED	
74853	G	20.	24.	21.	21.	24.	22.	DELIVERED	
74857	G	19.	24.	23.	21.	23.	22.	DELIVERED	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 147 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 7

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:			2500 PPM					
74860	G		17.	21.	21.	21.	22.	20. DELIVERED
74862	G		16.	21.	20.	22.	25.	21. DELIVERED
74866	G		22.	24.	24.	25.	25.	24. DELIVERED
74870	G		20.	23.	24.	23.	24.	23. DELIVERED
MEAN			18.	21.	22.	23.	24.	22.
S.D.			4.9	4.1	3.4	2.5	2.7	2.3
N			28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 1:			0 PPM					
74737	G		82.	74.	70.	77.	67.	74. DELIVERED
74740	G		63.	69.	67.	71.	69.	68. DELIVERED
74749	NG		70.	57.	69.	60.	51.	61. FAILED TO DELIVER DAY 54
74757	G		73.	82.	64.	61.	64.	67. DELIVERED
74759	G		64.	72.	75.	72.	66.	70. DELIVERED
74764	G		63.	80.	83.	71.	63.	72. DELIVERED
74767	G		70.	75.	67.	80.	70.	73. DELIVERED
74772	G	123.	76.	76.	70.	69.	69.	81. DELIVERED
74773	G		68.	73.	72.	68.	60.	67. DELIVERED
74774	G		73.	84.	78.	78.	67.	73. DELIVERED
74779	NG		65.	69.	65.	65.	68.	66. FAILED TO DELIVER DAY 62
74789	G		67.	76.	71.	77.	69.	72. DELIVERED
74794	NG		55.	52.	53.	50.	62.	56. FAILED TO DELIVER DAY 60
74804	G		90.	89.	79.	73.	65.	77. DELIVERED
74808	G		73.	78.	69.	70.	65.	71. DELIVERED
74810	G		72.	78.	70.	73.	71.	73. DELIVERED
74826	G		69.	61.	88.	81.	74.	77. DELIVERED
74828	NG		71.	78.	70.	75.	62.	71. FAILED TO DELIVER DAY 58
74829	G		65.	81.	67.	62.	63.	66. DELIVERED
74840	G		60.	79.	68.	71.	67.	69. DELIVERED
74841	G		65.	80.	70.	75.	70.	72. DELIVERED
74844	G		49.	76.	75.	77.	77.	71. DELIVERED
74845	G		58.	68.	63.	62.	64.	63. DELIVERED
74854	G		58.	70.	70.	65.	65.	66. DELIVERED
74864	G		53.	84.	101.	68.	58.	70. DELIVERED
74867	G		74.	76.	68.	71.	64.	69. DELIVERED
MEAN			70.	76.	73.	72.	67.	71.
S.D.			15.0	6.2	8.7	5.7	4.3	4.1
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 148 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS								
DAMS FROM GROUP 2:			500 PPM					
74742	G		64.	82.	71.	65.	65.	68. DELIVERED
74746	G		73.	83.	75.	75.	68.	75. DELIVERED
74753	G		70.	81.	64.	73.	68.	71. DELIVERED
74761	G		65.	59.	71.	63.	65.	66. DELIVERED
74762	G		83.	93.	79.	87.	78.	81. DELIVERED
74765	G		61.	66.	72.	63.	69.	68. DELIVERED
74782	G		62.	76.	69.	72.	69.	70. DELIVERED
74785	G		57.	62.	60.	56.	54.	56. DELIVERED
74790	G		82.	73.	64.	65.	65.	69. DELIVERED
74796	G		62.	84.	84.	72.	67.	73. DELIVERED
74797	G		72.	89.	86.	87.	74.	80. DELIVERED
74798	G		63.	79.	71.	81.	81.	75. DELIVERED
74802	G		84.	100.	93.	85.	82.	87. DELIVERED
74805	G		61.	74.	65.	69.	67.	68. DELIVERED
74809	G		68.	82.	79.	72.	70.	73. DELIVERED
74812	G		50.	95.	74.	84.	74.	75. DELIVERED
74819	G		71.	72.	67.	63.	59.	66. DELIVERED
74823	G		54.	67.	72.	61.	56.	62. DELIVERED
74824	G		70.	84.	73.	71.	67.	73. DELIVERED
74835	G		73.	77.	71.	66.	71.	73. DELIVERED
74838	G		69.	77.	71.	70.	59.	66. DELIVERED
74839	G		68.	77.	71.	69.	66.	69. DELIVERED
74846	G		69.	79.	73.	65.	60.	69. DELIVERED
74856	G		78.	77.	70.	77.	70.	74. DELIVERED
74859	G		54.	70.	75.	71.	71.	69. DELIVERED
74861	G		66.	73.	81.	77.	74.	74. DELIVERED

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 148 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PAGE 3

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
DAMS FROM GROUP 2:		500 PPM						
74863	G	63.	79.	76.	73.	73.	74.	DELIVERED
74869	G	62.	81.	68.	72.	70.	71.	DELIVERED
74873	NG	48.	51.	59.	53.	59.	57.	FAILED TO DELIVER DAY 61
MEAN		67.	78.	73.	72.	68.	71.	
S.D.		8.5	9.3	7.1	8.0	6.7	5.9	
N		28	28	28	28	28	28	

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 148 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 3:		1000 PPM							
74738	G	85.	80.	78.	72.	22.	61.	DELIVERED	
74739	G	70.	80.	73.	74.	70.	74.	DELIVERED	
74743	G	69.	78.	71.	71.	63.	69.	DELIVERED	
74744	G	76.	77.	70.	71.	74.	75.	DELIVERED	
74748	G	66.	68.	68.	70.	64.	66.	DELIVERED	
74752	G	87.	85.	79.	73.	70.	77.	DELIVERED	
74766	G	68.	71.	72.	68.	66.	70.	DELIVERED	
74777	NG	75.	67.	68.	62.	59.	67.	FAILED TO DELIVER DAY 58	
74780	G	61.	75.	69.	75.	66.	70.	DELIVERED	
74791	G	71.	72.	66.	64.	72.	71.	DELIVERED	
74793	G	82.	87.	80.	80.	72.	78.	DELIVERED	
74795	G	82.	84.	78.	73.	59.	72.	DELIVERED	
74799	G	82.	79.	76.	69.	63.	71.	DELIVERED	
74801	G	64.	65.	66.	63.	64.	63.	DELIVERED	
74806	G	85.	79.	76.	66.	64.	74.	DELIVERED	
74820	G	16.	5.	98.	107.	80.	67.	DELIVERED	
74821	G	79.	91.	81.	81.	68.	77.	DELIVERED	
74831	G	74.	76.	74.	65.	64.	68.	DELIVERED	
74834	G	62.	66.	64.	60.	57.	63.	DELIVERED	
74847	G	71.	75.	72.	66.	62.	67.	DELIVERED	
74848	G	64.	65.	66.	58.	66.	65.	DELIVERED	
74849	G	67.	92.	84.	87.	72.	79.	DELIVERED	
74850	G	67.	72.	70.	69.	61.	66.	DELIVERED	
74855	G	61.	72.	74.	70.	65.	70.	DELIVERED	
74858	G	58.	72.	72.	68.	54.	64.	DELIVERED	
74865	G	66.	74.	72.	70.	65.	69.	FAILED TO DELIVER DAY 58	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 148 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

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PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 3:			1000 PPM					
74868	G		65.	71.	68.	71.	70.	69. DELIVERED
74871	G		72.	72.	67.	45.	52.	60. DELIVERED
MEAN			69.	73.	73.	71.	64.	69.
S.D.			13.5	15.5	7.1	10.7	10.3	5.2
N			27	27	27	27	27	27

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 4:		2500 PPM							
74747	G	60.	76.	32.	74.	58.	59.	DELIVERED	
74750	NG	68.	72.	67.	60.	57.	65.	FAILED TO DELIVER DAY 60	
74751	G	81.	69.	82.	73.	73.	74.	DELIVERED	
74754	G	63.	52.	84.	72.	71.	71.	DELIVERED	
74755	G	75.	74.	72.	78.	67.	74.	DELIVERED	
74768	G	68.	68.	63.	61.	59.	64.	DELIVERED	
74769	G	70.	69.	79.	84.	78.	77.	DELIVERED	
74770	G	65.	57.	56.	49.	60.	57.	DELIVERED	
74781	NG	53.	66.	56.	73.	73.	63.	FAILED TO DELIVER DAY 50	
74784	G	17.	15.	87.	88.	73.	59.	DELIVERED	
74786	G	88.	75.	88.	76.	74.	81.	DELIVERED	
74787	G	30.	90.	87.	81.	68.	71.	DELIVERED	
74792	G	65.	68.	65.	63.	55.	63.	DELIVERED	
74800	G	71.	78.	80.	75.	60.	70.	FAILED TO DELIVER DAY 57	
74803	G	63.	80.	75.	77.	64.	71.	DELIVERED	
74807	G	65.	67.	68.	63.	58.	63.	DELIVERED	
74811	G	49.	76.	52.	82.	71.	65.	DELIVERED	
74813	G	63.	70.	64.	68.	69.	66.	DELIVERED	
74817	G	59.	64.	65.	64.	67.	65.	DELIVERED	
74822	G	73.	68.	75.	66.	61.	67.	DELIVERED	
74827	G	76.	75.	72.	69.	64.	70.	DELIVERED	
74832	G	68.	68.	69.	65.	61.	66.	DELIVERED	
74833	G	57.	70.	70.	65.	57.	63.	DELIVERED	
74836	G	29.	83.	83.	82.	73.	70.	DELIVERED	
74853	G	64.	73.	61.	60.	60.	63.	DELIVERED	
74857	G	60.	71.	67.	59.	58.	62.	DELIVERED	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 148 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PAGE 7

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:			2500 PPM					
74860	G		60.	71.	69.	66.	63.	64. DELIVERED
74862	G		59.	75.	68.	72.	71.	69. DELIVERED
74866	G		65.	68.	66.	66.	59.	64. DELIVERED
74870	G		57.	63.	64.	60.	58.	61. DELIVERED
MEAN			61.	69.	70.	70.	65.	67.
S.D.			15.1	12.9	12.0	9.1	6.5	5.6
N			28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 1:			0 PPM							
74737	G		27.3	11.7	-1.1	30.3	47.0	26.6	DELIVERED	
74740	G		5.7	3.3	20.2	21.2	42.9	23.2	DELIVERED	
74749	NG		21.3	15.7	3.7	-16.4	-6.7	3.6	FAILED TO DELIVER DAY 54	
74757	G		8.8	43.6	11.1	-12.3	68.1	31.5	DELIVERED	
74759	G		23.1	19.7	17.4	20.0	49.7	29.7	DELIVERED	
74764	G		15.5	13.2	18.9	8.3	49.4	25.1	DELIVERED	
74767	G		12.3	1.5	16.7	18.9	46.3	24.0	DELIVERED	
74772	G		-20.1	78.3	18.4	16.0	49.3	24.7	DELIVERED	
74773	G		26.7	20.8	22.0	17.3	54.3	31.9	DELIVERED	
74774	G		29.5	14.7	14.5	11.2	45.2	26.0	DELIVERED	
74779	NG		12.2	15.9	1.3	-6.6	2.4	4.7	FAILED TO DELIVER DAY 62	
74789	G		-15.7	40.7	22.0	11.3	48.9	25.9	DELIVERED	
74794	NG		-5.6	-7.7	-3.0	-2.1	1.7	-2.5	FAILED TO DELIVER DAY 60	
74804	G		24.2	6.2	22.4	8.2	49.6	26.0	DELIVERED	
74808	G		23.7	21.0	10.1	23.1	38.1	25.0	DELIVERED	
74810	G		18.6	12.0	12.9	17.3	52.4	27.7	DELIVERED	
74826	G		13.0	-73.6	61.7	16.0	44.4	25.4	DELIVERED	
74828	NG		25.0	2.9	8.2	10.0	-7.8	6.5	FAILED TO DELIVER DAY 58	
74829	G		0.0	44.0	9.2	20.3	51.1	28.4	DELIVERED	
74840	G		32.7	18.3	-3.6	7.6	21.8	15.6	DELIVERED	
74841	G		18.8	20.9	8.1	24.2	39.5	24.7	DELIVERED	
74844	G		42.0	17.6	22.9	11.4	30.0	25.0	DELIVERED	
74845	G		14.6	10.0	12.6	3.1	31.9	17.4	DELIVERED	
74854	G		9.6	13.5	17.5	9.0	39.6	21.5	DELIVERED	
74864	G		-21.0	46.7	11.9	21.1	54.4	26.9	DELIVERED	
74867	G		27.3	13.9	12.5	16.9	45.5	26.4	DELIVERED	
MEAN			14.4	18.1	16.3	14.6	45.4	25.4		
S.D.			16.62	27.22	12.31	8.86	9.62	3.79		
N			22	22	22	22	22	22		

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS	DAY							
DAMS FROM GROUP 2:			500 PPM					
74742	G		17.6	5.4	9.3	22.2	53.5	26.4 DELIVERED
74746	G		18.0	10.8	8.9	19.4	51.4	26.1 DELIVERED
74753	G		23.5	18.3	9.0	17.9	42.9	25.4 DELIVERED
74761	G		29.8	7.3	5.8	11.5	52.1	26.4 DELIVERED
74762	G		-7.6	30.0	20.7	4.1	41.7	21.2 DELIVERED
74765	G		19.1	5.3	8.4	17.3	20.2	14.9 DELIVERED
74782	G		9.3	16.7	20.4	10.5	49.1	26.1 DELIVERED
74785	G		15.0	6.8	9.0	14.3	51.3	23.4 DELIVERED
74790	G		30.4	19.7	12.3	22.2	52.7	31.5 DELIVERED
74796	G		10.0	15.3	13.9	19.2	44.8	23.8 DELIVERED
74797	G		26.5	12.8	15.7	20.2	42.3	26.2 DELIVERED
74798	G		2.8	14.5	23.9	8.9	39.7	22.6 DELIVERED
74802	G		11.2	14.9	5.9	14.1	45.6	22.1 DELIVERED
74805	G		-18.6	58.7	13.8	13.7	43.6	25.9 DELIVERED
74809	G		28.9	18.2	12.3	18.8	49.3	28.9 DELIVERED
74812	G		-21.0	51.7	20.0	24.4	42.7	29.3 DELIVERED
74819	G		16.1	1.4	16.4	7.5	47.4	22.1 DELIVERED
74823	G		8.3	14.3	20.6	16.2	44.2	24.2 DELIVERED
74824	G		15.4	20.0	15.2	10.0	19.7	16.6 DELIVERED
74835	G		26.6	12.5	13.5	5.2	47.1	25.7 DELIVERED
74838	G		-15.5	43.6	18.9	25.3	58.4	29.5 DELIVERED
74839	G		18.8	18.9	9.3	21.1	53.0	28.2 DELIVERED
74846	G		24.0	9.4	17.0	10.8	38.1	22.4 DELIVERED
74856	G		31.9	4.0	4.4	23.1	45.3	25.6 DELIVERED
74859	G		6.3	11.0	26.7	20.6	43.3	26.6 DELIVERED
74861	G		26.3	-34.4	40.1	21.6	21.6	18.6 DELIVERED

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 SPONSOR:ACC

TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 3

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:			500 PPM					
74863	G		18.9	15.4	13.3	17.9	44.0	25.5 DELIVERED
74869	G		-18.4	58.4	7.4	28.4	36.8	24.6 DELIVERED
74873	NG		3.1	3.9	5.1	3.6	-2.5	1.9 FAILED TO DELIVER DAY 61
MEAN			12.6	17.2	14.7	16.7	43.6	24.6
S.D.			15.77	18.53	7.60	6.29	9.58	3.74
N			28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
-----									
DAMS FROM GROUP 3:		1000 PPM							
-----									
74738	G		24.7	17.2	4.3	21.2	12.8	16.1	DELIVERED
74739	G		25.9	19.7	10.0	22.2	49.4	29.1	DELIVERED
74743	G		17.1	24.0	11.5	22.7	47.4	27.5	DELIVERED
74744	G		16.7	11.1	20.0	11.0	54.0	28.4	DELIVERED
74748	G		21.8	6.3	23.3	21.9	36.9	24.7	DELIVERED
74752	G		28.7	6.0	17.9	13.9	44.2	25.8	DELIVERED
74766	G		32.8	16.7	12.0	33.8	48.2	31.5	DELIVERED
74777	NG		33.6	19.1	11.3	-9.2	6.3	12.8	FAILED TO DELIVER DAY 58
74780	G		15.5	5.5	17.4	15.6	34.9	20.6	DELIVERED
74791	G		18.5	11.3	17.2	8.2	49.0	26.2	DELIVERED
74793	G		23.5	18.1	12.0	18.1	52.0	28.5	DELIVERED
74795	G		35.3	20.7	9.8	12.5	47.5	27.4	DELIVERED
74799	G		20.0	5.3	26.5	5.6	46.1	24.4	DELIVERED
74801	G		18.4	13.3	16.8	20.9	48.3	27.8	DELIVERED
74806	G		35.1	11.1	19.1	13.6	55.6	31.6	DELIVERED
74820	G		-342.9	-952.4	83.3	29.2	42.0	29.3	DELIVERED
74821	G		23.1	11.4	16.8	6.0	28.4	18.6	DELIVERED
74831	G		24.7	6.3	18.6	26.4	55.3	30.4	DELIVERED
74834	G		18.1	20.6	2.4	11.5	50.1	24.2	DELIVERED
74847	G		25.6	10.8	16.1	12.7	50.8	27.2	DELIVERED
74848	G		30.6	11.8	8.3	20.7	45.8	27.4	DELIVERED
74849	G		25.0	15.4	12.2	16.0	39.3	23.8	DELIVERED
74850	G		24.6	3.1	18.3	26.1	55.3	30.0	DELIVERED
74855	G		18.1	4.3	31.6	10.5	34.4	22.9	DELIVERED
74858	G		9.6	15.9	23.1	16.9	53.7	27.3	DELIVERED
74865	G		5.6	13.5	10.1	6.7	13.1	10.2	FAILED TO DELIVER DAY 58

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 3:			1000 PPM							
74868	G		27.5	8.1	22.7	7.5	53.9	29.8	DELIVERED	
74871	G		20.2	18.2	10.7	-23.3	67.8	26.4	DELIVERED	
MEAN			9.0	-23.2	18.2	15.1	45.0	25.8		
S.D.			70.67	185.79	14.58	10.67	12.27	4.84		
N			27	27	27	27	27	27		

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 149 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS	DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 4:		2500 PPM							
74747	G	33.8	26.1	5.0	29.2	65.8	39.6	DELIVERED	
74750	NG	28.9	6.3	10.0	3.6	-11.1	6.7	FAILED TO DELIVER	DAY 60
74751	G	30.7	-43.9	39.5	15.2	50.3	27.1	DELIVERED	
74754	G	25.7	-90.7	57.0	22.2	46.0	27.9	DELIVERED	
74755	G	22.4	-26.1	43.0	22.8	39.0	24.9	DELIVERED	
74768	G	25.0	18.2	8.2	24.2	54.1	29.7	DELIVERED	
74769	G	23.3	-21.2	36.3	25.8	40.2	26.7	DELIVERED	
74770	G	29.5	5.1	13.8	0.0	51.1	26.5	DELIVERED	
74781	NG	12.3	0.0	-7.6	1.5	4.6	2.6	FAILED TO DELIVER	DAY 50
74784	G	-281.3	-209.9	85.0	23.9	27.8	19.7	DELIVERED	
74786	G	14.4	-21.5	37.7	5.3	43.7	22.5	DELIVERED	
74787	G	-6.3	30.3	19.4	30.8	48.1	31.2	DELIVERED	
74792	G	25.9	20.6	10.8	32.2	54.0	31.6	DELIVERED	
74800	G	24.6	12.0	4.3	18.2	-0.9	10.2	FAILED TO DELIVER	DAY 57
74803	G	32.3	7.0	7.8	11.1	39.5	21.7	DELIVERED	
74807	G	35.9	10.6	17.4	16.4	54.1	30.8	DELIVERED	
74811	G	-39.3	71.5	4.5	32.1	44.9	30.0	DELIVERED	
74813	G	23.8	16.7	14.9	27.4	41.3	27.9	DELIVERED	
74817	G	11.4	1.7	32.9	17.9	44.6	27.1	DELIVERED	
74822	G	20.6	-45.5	53.4	11.0	54.7	27.5	DELIVERED	
74827	G	24.0	22.4	10.9	26.4	44.4	27.7	DELIVERED	
74832	G	16.2	16.4	19.0	23.5	53.5	29.7	DELIVERED	
74833	G	23.6	11.4	19.8	5.9	46.3	25.0	DELIVERED	
74836	G	-50.0	32.9	21.0	23.1	50.1	29.2	DELIVERED	
74853	G	30.8	18.3	14.1	12.5	62.7	33.3	DELIVERED	
74857	G	31.1	15.3	8.7	15.6	53.6	28.7	DELIVERED	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 149 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:			2500 PPM					
74860	G		20.8	12.7	15.5	12.9	43.2	24.5 DELIVERED
74862	G		8.1	19.3	20.2	16.9	51.7	28.8 DELIVERED
74866	G		29.8	2.8	22.9	14.5	50.0	28.3 DELIVERED
74870	G		29.5	11.4	15.8	10.3	31.3	21.5 DELIVERED
MEAN			7.7	-2.7	23.5	18.8	45.9	27.1
S.D.			60.04	50.54	18.72	8.46	12.30	5.16
N			28	28	28	28	28	28

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGFWv4.0  
12/09/2002

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 1:	0 PPM					
-----	-----	-----	-----	-----	-----	-----
74737	44.	42.	37.	69.	65.	54.
74740	36.	32.	45.	58.	77.	54.
74757	36.	43.	40.	64.	73.	55.
74759	22.	28.	54.	57.	75.	54.
74764	43.	41.	38.	57.	77.	54.
74767	31.	50.	51.	55.	76.	56.
74772	34.	44.	52.	61.	78.	58.
74773	40.	40.	40.	64.	76.	56.
74774	47.	43.	48.	56.	62.	53.
74789	25.	41.	59.	60.	73.	57.
74804	75.	14.	NA	54.	66.	55.
74808	41.	42.	44.	73.	82.	61.
74810	52.	44.	36.	73.	74.	58.
74826	58.	38.	51.	65.	68.	59.
74829	26.	43.	52.	69.	83.	61.
74840	17.	24.	33.	44.	26.	31.
74841	67.	38.	63.	58.	69.	61.
74844	30.	40.	52.	55.	50.	48.
74845	32.	44.	52.	59.	67.	55.
74854	32.	32.	44.	62.	71.	53.
74864	33.	32.	37.	45.	64.	45.
74867	39.	44.	38.	69.	76.	57.
MEAN	39.	38.	46.	60.	69.	54.
S.D.	14.1	8.2	8.2	7.7	12.2	6.5
N	22	22	21	22	22	22

NA = NOT APPLICABLE

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28		
DAMS FROM GROUP 2:		500 PPM						
74742	27.	49.	38.	52.	65.	48.		
74746	42.	37.	37.	50.	58.	46.		
74753	42.	39.	43.	58.	66.	52.		
74761	23.	29.	36.	46.	54.	41.		
74762	29.	45.	40.	52.	59.	47.		
74765	13.	11.	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 12	
74782	20.	36.	52.	41.	45.	42.		
74785	34.	37.	46.	58.	69.	53.		
74790	44.	44.	33.	66.	64.	52.		
74796	53.	38.	37.	65.	69.	55.		
74797	37.	42.	40.	55.	65.	50.		
74798	52.	35.	40.	55.	75.	54.		
74802	48.	53.	57.	60.	74.	61.		
74805	NA	NA	NA	NA	NA	NA		
74809	35.	34.	32.	62.	69.	50.		
74812	31.	34.	30.	NA	NA	NA	TOTAL LITTER LOSS DAY 14	
74816	43.	38.	46.	63.	66.	54.		
74819	25.	38.	47.	62.	60.	51.		
74823	28.	35.	49.	63.	66.	53.		
74824	41.	44.	47.	49.	62.	50.		
74835	48.	48.	34.	60.	66.	52.		
74838	38.	40.	47.	58.	62.	52.		
74839	35.	35.	52.	58.	69.	54.		
74846	38.	37.	46.	70.	65.	55.		
74856	50.	42.	41.	69.	75.	58.		
74859	39.	40.	43.	73.	78.	59.		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 150 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

PAGE 3

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 2:	500 PPM					
<hr/>						
74861	33.	36.	40.	52.	56.	46.
74863	34.	33.	44.	58.	66.	51.
74869	28.	34.	52.	64.	71.	55.
MEAN	36.	38.	43.	58.	65.	52.
S.D.	9.9	7.5	6.8	7.6	7.2	4.7
N	28	28	27	26	26	26

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 3:	1000 PPM					
-----						
74738	42.	35.	34.	57.	69.	50.
74739	61.	NA	39.	68.	70.	59.
74743	27.	26.	52.	60.	74.	54.
74744	28.	32.	45.	57.	65.	50.
74748	27.	34.	45.	54.	72.	51.
74752	32.	33.	48.	64.	75.	56.
74766	35.	30.	44.	53.	62.	49.
74780	41.	43.	38.	64.	65.	53.
74791	28.	55.	39.	49.	73.	51.
74793	69.	36.	55.	58.	72.	60.
74795	33.	35.	46.	58.	74.	54.
74799	26.	32.	46.	56.	66.	50.
74801	40.	33.	47.	58.	66.	52.
74806	35.	39.	52.	57.	61.	52.
74820	48.	34.	35.	61.	73.	53.
74821	25.	31.	42.	58.	68.	50.
74830	38.	34.	40.	61.	72.	53.
74831	48.	40.	37.	63.	64.	53.
74834	28.	35.	50.	64.	71.	55.
74847	28.	30.	44.	54.	76.	51.
74848	27.	30.	51.	63.	72.	54.
74849	37.	46.	35.	62.	66.	52.
74850	36.	38.	40.	57.	66.	51.
74855	31.	38.	50.	60.	81.	57.
74858	37.	41.	35.	65.	66.	52.
74868	42.	24.	36.	34.	36.	35.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 150 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

PAGE 5

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
74871	35.	37.	45.	58.	67.	52.
MEAN	36.	35.	43.	58.	68.	52.
S.D.	10.5	6.3	6.1	6.4	8.0	4.4
N	27	26	27	27	27	27

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 4:	2500 PPM						
-----							
74747	40.	34.	41.	69.	73.	56.	
74751	42.	41.	56.	60.	70.	58.	
74754	42.	40.	40.	65.	70.	54.	
74755	36.	39.	44.	65.	64.	53.	
74768	33.	34.	47.	50.	66.	50.	
74769	30.	40.	41.	47.	81.	51.	
74770	35.	44.	52.	63.	74.	58.	
74784	NA	NA	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 2
74786	48.	39.	36.	56.	73.	52.	
74787	29.	36.	45.	53.	69.	50.	
74792	31.	32.	49.	57.	70.	53.	
74803	21.	22.	53.	NA	NA	NA	TOTAL LITTER LOSS DAY 16
74807	29.	29.	51.	50.	68.	50.	
74811	41.	41.	45.	57.	71.	54.	
74813	30.	32.	38.	49.	75.	49.	
74817	51.	48.	47.	53.	70.	55.	
74822	40.	45.	30.	68.	74.	54.	
74827	65.	31.	29.	55.	68.	50.	
74832	35.	35.	44.	53.	77.	53.	
74833	32.	37.	40.	52.	64.	48.	
74836	39.	43.	50.	59.	73.	56.	
74853	29.	34.	49.	61.	67.	53.	
74857	50.	42.	38.	60.	74.	55.	
74860	27.	34.	47.	56.	70.	52.	
74862	29.	31.	47.	59.	59.	49.	
74866	42.	37.	45.	61.	80.	57.	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 150 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

PAGE 7

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 4:	2500 PPM					
<hr/>						
74870	28.	31.	49.	56.	76.	54.
MEAN	37.	37.	44.	57.	71.	53.
S.D.	9.5	5.8	6.6	5.9	5.0	2.9
N	26	26	26	25	25	25

PLFWv4.01  
07/08/2003

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 1:	0 PPM					
-----						
74737	140.	125.	115.	207.	204.	170.
74740	120.	104.	143.	182.	269.	180.
74757	125.	141.	126.	186.	225.	178.
74759	81.	102.	188.	191.	279.	196.
74764	132.	123.	115.	177.	262.	171.
74767	107.	169.	163.	170.	248.	185.
74772	100.	126.	141.	159.	220.	164.
74773	108.	107.	104.	165.	212.	151.
74774	145.	133.	141.	152.	177.	157.
74789	87.	139.	192.	182.	230.	188.
74804	249.	45.	NA	159.	201.	172.
74808	114.	109.	117.	189.	208.	162.
74810	160.	128.	108.	208.	211.	173.
74826	191.	119.	149.	181.	205.	181.
74829	89.	141.	153.	192.	257.	191.
74840	58.	80.	104.	131.	81.	100.
74841	256.	137.	210.	183.	238.	215.
74844	93.	118.	149.	157.	156.	145.
74845	98.	129.	145.	158.	191.	159.
74854	103.	100.	130.	171.	206.	160.
74864	100.	94.	123.	142.	173.	135.
74867	122.	131.	107.	191.	234.	171.
MEAN	126.	118.	139.	174.	213.	168.
S.D.	49.8	25.4	29.9	19.8	43.1	23.4
N	22	22	21	22	22	22

NA = NOT APPLICABLE

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 2:	500 PPM						
-----							
74742	91.	160.	118.	156.	199.	152.	
74746	138.	119.	119.	148.	166.	143.	
74753	118.	109.	125.	163.	186.	148.	
74761	81.	100.	116.	135.	159.	132.	
74762	111.	169.	152.	179.	194.	170.	
74765	46.	42.	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 12
74782	61.	113.	156.	111.	120.	121.	
74785	107.	113.	132.	158.	194.	156.	
74790	135.	126.	88.	193.	201.	153.	
74796	161.	111.	114.	190.	196.	164.	
74797	122.	134.	118.	157.	198.	154.	
74798	171.	112.	119.	158.	218.	165.	
74802	150.	159.	162.	166.	228.	183.	
74805	NA	NA	NA	NA	NA	NA	
74809	126.	125.	114.	200.	227.	174.	
74812	93.	103.	90.	NA	NA	NA	TOTAL LITTER LOSS DAY 14
74816	123.	104.	128.	172.	185.	152.	
74819	80.	114.	136.	168.	162.	149.	
74823	83.	103.	137.	168.	183.	151.	
74824	144.	150.	149.	143.	187.	161.	
74835	171.	166.	121.	205.	221.	182.	
74838	114.	116.	134.	164.	178.	151.	
74839	106.	101.	145.	156.	194.	156.	
74846	119.	111.	141.	202.	190.	167.	
74856	152.	121.	123.	198.	212.	172.	
74859	119.	117.	125.	204.	229.	175.	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 151 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/KG/DAY]

PAGE 3

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 2:	500 PPM					
<hr/>						
74861	100.	107.	116.	144.	155.	133.
74863	98.	94.	125.	163.	201.	149.
74869	98.	116.	178.	202.	220.	183.
MEAN	115.	118.	129.	169.	192.	158.
S.D.	31.1	25.7	19.9	24.3	25.7	15.8
N	28	28	27	26	26	26

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 3:	1000 PPM					
-----						
74738	153.	120.	110.	178.	228.	169.
74739	194.	NA	113.	182.	202.	176.
74743	82.	78.	149.	168.	223.	160.
74744	105.	117.	154.	174.	204.	171.
74748	84.	103.	126.	146.	201.	148.
74752	99.	99.	145.	185.	230.	172.
74766	117.	98.	139.	160.	200.	159.
74780	122.	124.	109.	178.	187.	154.
74791	97.	185.	125.	152.	239.	169.
74793	208.	107.	154.	152.	200.	171.
74795	95.	101.	130.	157.	206.	153.
74799	82.	98.	128.	150.	187.	146.
74801	129.	102.	143.	168.	194.	160.
74806	111.	122.	153.	157.	182.	158.
74820	159.	106.	106.	176.	227.	167.
74821	78.	95.	122.	163.	202.	150.
74830	124.	109.	128.	182.	220.	168.
74831	140.	108.	94.	154.	164.	141.
74834	93.	111.	156.	186.	207.	171.
74847	94.	99.	140.	165.	252.	167.
74848	88.	94.	159.	184.	217.	169.
74849	130.	152.	108.	186.	213.	170.
74850	123.	127.	136.	188.	210.	170.
74855	94.	111.	136.	153.	223.	161.
74858	113.	118.	99.	179.	187.	151.
74868	124.	69.	100.	89.	94.	97.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 151 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/KG/DAY]

PAGE 5

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
<hr/>						
74871	117.	116.	133.	183.	227.	167.
MEAN	117.	110.	129.	166.	205.	160.
S.D.	32.3	22.1	19.3	20.5	29.3	15.6
N	27	26	27	27	27	27

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 4:	2500 PPM						
-----							
74747	128.	105.	123.	189.	202.	167.	
74751	143.	130.	165.	173.	219.	183.	
74754	127.	116.	110.	179.	213.	158.	
74755	115.	121.	132.	188.	196.	163.	
74768	99.	100.	133.	137.	189.	145.	
74769	88.	114.	115.	127.	216.	143.	
74770	103.	121.	135.	161.	208.	161.	
74784	NA	NA	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 2
74786	159.	123.	106.	163.	234.	164.	
74787	97.	119.	148.	167.	216.	162.	
74792	102.	100.	143.	159.	207.	162.	
74803	74.	79.	179.	NA	NA	NA	TOTAL LITTER LOSS DAY 16
74807	90.	88.	147.	136.	193.	147.	
74811	127.	121.	127.	157.	205.	158.	
74813	102.	104.	128.	162.	244.	164.	
74817	156.	140.	131.	142.	200.	159.	
74822	112.	121.	78.	175.	206.	148.	
74827	201.	91.	80.	147.	192.	144.	
74832	117.	111.	137.	162.	258.	173.	
74833	97.	110.	112.	148.	193.	142.	
74836	128.	136.	151.	173.	231.	177.	
74853	89.	100.	136.	158.	189.	153.	
74857	152.	124.	108.	167.	214.	161.	
74860	92.	109.	142.	162.	208.	163.	
74862	102.	108.	152.	177.	184.	161.	
74866	119.	102.	119.	157.	229.	159.	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 151 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/KG/DAY]

PAGE 7

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 4:	2500 PPM					
<hr/>						
74870	77.	83.	127.	141.	201.	144.
MEAN	115.	111.	129.	160.	210.	158.
S.D.	29.0	15.4	22.8	16.0	18.2	10.7
N	26	26	26	25	25	25

PLFWv4.01  
07/08/2003

TABLE 152 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 1:	0 PPM					
-----						
74737	27.3	5.6	-13.5	12.4	-19.7	-1.5
74740	16.8	-4.1	4.7	-1.7	-10.4	-2.3
74757	13.9	18.6	-0.7	12.4	-18.8	-0.2
74759	6.1	4.8	5.5	0.0	-11.2	-2.1
74764	12.3	-2.5	0.0	-4.3	-7.2	-3.0
74767	15.1	-2.7	9.7	-3.4	-3.6	0.9
74772	10.9	8.3	6.9	1.4	-11.5	-0.6
74773	9.1	0.0	7.4	-3.3	-8.8	-2.0
74774	5.6	-9.2	13.6	2.3	-10.1	0.5
74789	16.2	4.9	4.6	5.5	-9.2	0.8
74804	4.0	39.6	NA	-1.9	-3.4	1.6
74808	29.3	12.6	-13.2	12.5	-8.3	1.6
74810	13.5	11.3	-14.0	13.8	-14.2	-0.1
74826	6.3	15.9	8.1	1.8	-13.4	0.1
74829	-24.4	31.6	8.8	1.4	-13.8	-1.2
74840	19.3	8.3	11.3	4.6	-25.0	1.3
74841	13.0	5.2	8.7	-1.2	-10.0	1.0
74844	34.4	0.8	5.2	-3.4	-13.6	-0.8
74845	25.8	4.6	7.4	1.2	-10.7	0.9
74854	17.7	2.1	10.7	3.4	-10.0	1.2
74864	18.0	0.0	-30.2	36.4	-1.8	3.8
74867	18.9	9.0	8.3	-1.2	-12.8	-1.2
MEAN	14.1	7.5	2.3	4.0	-11.3	-0.1
S.D.	11.68	11.31	10.99	9.16	5.33	1.62
N	22	22	21	22	22	22

NA = NOT APPLICABLE

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TABLE 152 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 2:	500 PPM						
-----							
74742	-3.7	14.4	5.3	2.2	-5.1	1.3	
74746	9.5	-0.9	1.5	13.0	-5.2	3.2	
74753	10.2	-10.3	-3.9	8.4	-8.3	-1.1	
74761	1.4	14.8	11.5	10.6	-10.1	3.5	
74762	21.6	-5.2	0.7	13.6	-5.6	3.2	
74765	-13.1	-87.9	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 12
74782	0.0	-19.3	14.6	5.9	-1.0	4.1	
74785	8.7	9.9	9.1	2.7	-7.5	1.7	
74790	23.3	11.4	15.5	-22.3	12.5	2.5	
74796	20.8	-5.2	-10.8	13.8	-9.3	1.2	
74797	0.9	15.0	11.8	-3.1	-6.9	0.7	
74798	5.1	9.6	11.9	-1.8	0.0	3.0	
74802	10.5	7.5	6.0	-1.7	-12.4	-1.2	
74805	NA	NA	NA	NA	NA	NA	
74809	26.9	-38.6	24.9	0.9	-3.5	2.4	
74812	1.1	-2.9	2.8	NA	NA	NA	TOTAL LITTER LOSS DAY 14
74816	21.1	0.9	-3.7	6.4	-10.5	-0.3	
74819	12.0	31.3	-3.1	13.0	-12.6	2.8	
74823	10.8	-1.9	10.0	-0.2	-5.8	0.9	
74824	-3.3	16.6	7.3	8.2	-11.4	1.5	
74835	13.2	0.0	-8.8	11.0	-7.2	0.8	
74838	10.6	11.8	-0.9	2.0	-3.9	1.0	
74839	21.9	12.5	2.7	3.9	-10.0	1.0	
74846	21.2	3.6	-4.7	11.2	-14.0	0.3	
74856	21.9	3.9	-11.9	13.6	-10.8	0.8	
74859	9.5	14.9	-5.7	9.2	-14.8	-1.4	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 152 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 3

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 2:	500 PPM					
74861	13.1	2.8	4.6	4.4	-3.6	2.5
74863	23.3	-18.0	7.9	-4.7	-7.4	-1.7
74869	4.8	7.8	-2.5	13.5	-10.0	0.9
MEAN	10.8	-0.1	3.4	5.1	-7.1	1.3
S.D.	10.03	21.93	8.79	8.09	5.51	1.58
N	28	28	27	26	26	26

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TABLE 152 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
-----						
DAMS FROM GROUP 3:	1000 PPM					
-----						
74738	20.6	7.6	11.7	-1.5	-6.8	1.7
74739	13.6	NA	21.2	0.0	-10.9	1.2
74743	6.2	-1.3	9.1	-4.1	-6.2	-0.8
74744	4.7	7.2	10.4	9.0	-11.9	1.9
74748	0.0	20.8	9.5	0.0	-5.3	1.7
74752	17.5	7.1	-3.3	8.7	-14.9	-1.7
74766	18.1	-4.4	7.4	2.2	-11.9	-0.5
74780	20.5	-0.8	2.2	2.7	-7.9	0.4
74791	17.7	2.4	9.1	-0.6	-6.3	0.7
74793	4.8	1.9	9.3	3.2	-11.1	0.3
74795	3.1	-1.9	5.9	2.5	-5.6	0.1
74799	-1.3	25.8	11.9	-2.1	-7.4	1.5
74801	15.7	11.1	-1.5	10.1	-11.3	1.0
74806	13.4	-2.6	11.8	0.7	-13.1	0.1
74820	25.0	1.0	8.2	2.6	-11.7	0.6
74821	9.2	9.6	7.9	0.5	-9.1	-0.1
74830	15.0	-5.9	2.1	9.3	-11.3	0.0
74831	28.3	10.0	13.8	-1.6	-6.2	3.8
74834	16.8	13.2	-1.4	11.8	-11.5	1.3
74847	4.8	3.3	6.9	1.6	-10.5	-1.6
74848	22.5	5.6	-0.8	11.1	-13.9	-0.1
74849	18.9	11.7	9.7	-0.7	-9.5	1.0
74850	2.8	10.5	-8.5	10.8	-5.0	0.8
74855	16.0	6.2	14.0	-0.2	-10.1	0.8
74858	19.8	16.4	-4.1	6.8	-11.3	0.8
74868	9.5	0.0	10.3	6.6	-4.3	4.5

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 152 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 3:	1000 PPM					
74871	29.5	9.9	8.2	-16.8	5.1	1.7
MEAN	13.8	6.3	6.7	2.7	-8.9	0.8
S.D.	8.49	7.70	6.62	6.10	4.05	1.35
N	27	26	27	27	27	27

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TABLE 152 (F0)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28	
-----							
DAMS FROM GROUP 4:	2500 PPM						
-----							
74747	20.8	-1.0	6.6	9.7	-10.8	2.3	
74751	17.6	16.1	6.8	-2.4	-9.6	0.8	
74754	10.4	12.4	8.2	-5.1	-9.6	-1.3	
74755	9.3	4.3	6.5	0.4	-8.7	-0.1	
74768	11.0	2.9	6.4	1.1	-7.5	0.3	
74769	23.1	2.5	3.5	4.8	-1.1	3.2	
74770	24.8	17.5	5.7	-2.5	-11.8	-0.1	
74784	NA	NA	NA	NA	NA	NA	TOTAL LITTER LOSS DAY 2
74786	7.6	18.1	10.7	-5.9	-7.5	-0.1	
74787	-13.9	18.7	-5.8	11.7	-7.5	-0.2	
74792	15.2	16.7	8.2	1.5	-9.9	1.1	
74803	-14.1	9.1	7.0	NA	NA	NA	TOTAL LITTER LOSS DAY 16
74807	15.9	-4.6	12.3	-2.0	-4.9	1.8	
74811	20.5	8.1	6.3	-0.8	-6.0	1.5	
74813	21.1	5.2	-9.3	10.7	-5.5	0.5	
74817	12.5	7.6	7.0	2.1	-11.4	0.3	
74822	19.2	4.4	9.0	-2.1	-9.2	-0.7	
74827	5.2	24.7	9.8	0.8	-8.8	1.0	
74832	24.0	5.7	2.6	1.1	-12.1	-1.5	
74833	3.1	12.5	8.2	-8.8	-2.0	-0.1	
74836	12.1	7.0	5.7	0.5	-10.6	-0.6	
74853	12.5	17.6	7.6	5.1	-18.0	-0.5	
74857	2.7	12.7	2.3	2.6	-7.5	-0.1	
74860	16.2	22.7	5.2	2.8	-6.3	2.4	
74862	-10.3	18.5	8.3	5.6	-12.3	0.5	
74866	11.8	9.1	5.1	1.2	-14.5	-2.3	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 152 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

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	DAY 1- 4	4- 7	7-14	14-21	21-28	1-28
<hr/>						
DAMS FROM GROUP 4:	2500 PPM					
74870	14.1	5.4	6.1	1.3	-7.9	0.1
MEAN	11.2	10.5	5.8	1.3	-8.8	0.3
S.D.	10.72	7.45	4.54	4.87	3.65	1.26
N	26	26	26	25	25	25

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TABLE 153 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL GESTATION LENGTHS [DAYS]

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0 PPM		500 PPM		1000 PPM		2500 PPM	
ANIMAL	GESTATION LENGTH	ANIMAL	GESTATION LENGTH	ANIMAL	GESTATION LENGTH	ANIMAL	GESTATION LENGTH
74737	22.	74742	22.	74738	22.	74747	22.
74740	22.	74746	22.	74739	22.	74751	22.
74757	22.	74753	22.	74743	22.	74754	22.
74759	22.	74761	22.	74744	22.	74755	22.
74764	22.	74762	21.	74748	20.NA	74768	22.
74767	22.	74765	22.	74752	22.	74769	21.
74772	22.	74782	21.	74766	22.	74770	22.
74773	22.	74785	22.	74780	22.	74784	24.
74774	22.	74790	22.	74791	22.	74786	22.
74789	22.	74796	22.	74793	22.	74787	20.NA
74804	22.	74797	22.	74795	22.	74792	22.
74808	22.	74798	22.	74799	21.	74803	22.
74810	22.	74802	22.	74801	22.	74807	21.
74826	22.	74805	23.	74806	21.	74811	22.
74829	22.	74809	22.	74820	22.	74813	21.
74840	23.	74812	21.	74821	22.	74817	21.
74841	22.	74819	22.	74831	22.	74822	22.
74844	22.	74823	22.	74834	22.	74827	22.
74845	22.	74824	22.	74847	22.	74832	22.
74854	22.	74835	22.	74848	22.	74833	22.
74864	21.	74838	21.	74849	22.	74836	21.
74867	22.	74839	21.	74850	22.	74853	21.
		74846	22.	74855	22.	74857	22.
		74856	22.	74858	22.	74860	21.
		74859	22.	74868	21.	74862	22.
		74861	22.	74871	22.	74866	22.
		74863	22.			74870	22.
		74869	22.				
MEAN	22.0		21.9		21.9		21.8
S.D.	0.31		0.45		0.33		0.63
N	22		28		25		26

NA = LESS THAN LOWER LIMIT OF 21 DAYS -- NOT INCLUDED IN CALCULATION MEAN

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74602	79.9	540.4
74603	76.8	458.7
74610	74.0	589.2
74614	90.4	370.7
74616	85.6	408.3
74620	74.3	401.4
74627	105.9	561.3
74630	91.4	526.6
74632	126.4	398.9
74633	104.0	519.6
74636	66.5	373.7
74644	90.6	544.5
74645	93.5	479.4
74648	87.2	558.5
74656	51.9	79.8
74660	93.9	396.8
74664	92.0	462.2
74665	101.6	411.9
74669	77.5	578.5
74677	77.1	455.7
74681	115.4	606.3
74682	98.5	508.7
74686	77.0	551.8
74696	94.1	503.8
74698	92.1	576.0

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74700	105.5	668.5
74701	81.1	455.7
74707	107.7	466.4
74711	73.4	505.3
74724	77.7	328.4
MEAN	88.8	476.2
S.D.	15.53	110.08
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74601	100.4	480.6
74604	67.7	486.3
74605	128.4	326.7
74609	90.4	351.3
74612	120.5	443.5
74613	87.7	467.4
74621	89.2	530.3
74625	81.4	567.6
74626	52.5	457.3
74634	94.6	561.5
74641	128.1	503.8
74642	98.3	452.7
74655	69.2	357.1
74662	89.2	458.6
74666	62.1	149.0
74667	90.2	691.2
74671	98.2	576.2
74673	73.1	356.9
74676	95.5	368.4
74685	78.7	682.3
74689	113.2	647.4
74690	107.9	491.4
74704	84.3	616.6
74708	88.6	384.7
74709	88.0	539.5

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 4

MALE GROUP: 100 MG/KG/DAY

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74712	111.6	463.0
74715	149.1	459.8
74722	93.8	366.8
74729	106.4	404.1
74733	121.7	495.9
MEAN	95.3	471.3
S.D.	21.22	115.14
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 5

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74606	110.9	437.1
74607	78.8	555.4
74608	108.2	514.8
74611	111.4	556.2
74615	127.5	473.4
74617	92.7	421.5
74618	88.7	477.3
74619	139.0	448.6
74622	90.2	681.4
74638	86.8	479.8
74639	92.4	343.5
74650	101.7	518.4
74661	83.9	508.3
74668	80.3	429.8
74670	109.4	398.7
74674	96.9	484.3
74675	106.5	509.0
74679	120.9	644.5
74683	81.4	562.3
74684	94.8	399.2
74691	97.6	616.3
74693	72.8	292.4
74699	88.1	454.8
74706	76.4	451.4
74710	90.2	494.0

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74717	63.0	438.2
74719	96.5	418.4
74727	78.4	267.2
74734	61.0	459.0
74735	99.8	566.7
MEAN	94.2	476.7
S.D.	17.67	91.86
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74624	107.6	489.1
74628	107.2	481.1
74629	75.5	582.9
74631	78.8	560.8
74635	113.3	582.1
74640	93.3	554.7
74643	143.9	443.8
74646	93.1	498.5
74647	122.1	626.0
74649	87.7	446.1
74652	73.1	538.6
74653	100.9	493.6
74658	83.3	751.2
74659	91.8	394.9
74663	77.4	805.4
74680	82.1	353.7
74688	100.2	653.4
74692	103.1	593.7
74695	97.1	429.3
74697	103.6	534.5
74702	89.9	661.1
74703	77.4	332.2
74705	80.9	487.9
74713	70.4	475.6
74718	104.7	366.1

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 154 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74720	82.6	534.0
74723	77.1	595.7
74725	102.0	433.9
74726	118.7	514.3
74728	86.3	562.1
MEAN	94.2	525.9
S.D.	16.77	108.76
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 1

MALE GROUP: 0 PPM

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ANIMAL	LEFT TESTIS
74602	13.1
74603	12.6
74610	12.1
74614	14.8
74616	14.0
74620	12.2
74627	17.4
74630	15.0
74632	20.7
74633	17.0
74636	10.9
74644	14.9
74645	15.3
74648	14.3
74656	8.5
74660	15.4
74664	15.1
74665	16.7
74669	12.7
74677	12.6
74681	18.9
74682	16.1
74686	12.6
74696	15.4
74698	15.1

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 2

MALE GROUP: 0 PPM

---

ANIMAL	LEFT TESTIS
74700	17.3
74701	13.3
74707	17.7
74711	12.0
74724	12.7
MEAN	14.5
S.D.	2.55
N	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 3

MALE GROUP: 500 PPM

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ANIMAL	LEFT TESTIS
74601	16.5
74604	11.1
74605	21.0
74609	14.8
74612	19.8
74613	14.4
74621	14.6
74625	13.3
74626	8.6
74634	15.5
74641	21.0
74642	16.1
74655	11.3
74662	14.6
74666	10.2
74667	14.8
74671	16.1
74673	12.0
74676	15.7
74685	12.9
74689	18.6
74690	17.7
74704	13.8
74708	14.5
74709	14.4

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 4

MALE GROUP: 500 MG/KG/DAY

---

ANIMAL	LEFT TESTIS
74712	18.3
74715	24.4
74722	15.4
74729	17.4
74733	20.0
MEAN	15.6
S.D.	3.48
N	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 5

MALE GROUP: 1000 PPM

---

ANIMAL	LEFT TESTIS
74606	18.2
74607	12.9
74608	17.7
74611	18.3
74615	20.9
74617	15.2
74618	14.5
74619	22.8
74622	14.8
74638	14.2
74639	15.1
74650	16.7
74661	13.8
74668	13.2
74670	17.9
74674	15.9
74675	17.5
74679	19.8
74683	13.3
74684	15.5
74691	16.0
74693	11.9
74699	14.4
74706	12.5
74710	14.8

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 6

MALE GROUP: 1000 PM

---

ANIMAL	LEFT TESTIS
74717	10.3
74719	15.8
74727	12.9
74734	10.0
74735	16.4
MEAN	15.4
S.D.	2.90
N	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 7

MALE GROUP: 2500 PPM

---

ANIMAL	LEFT TESTIS
74624	17.6
74628	17.6
74629	12.4
74631	12.9
74635	18.6
74640	15.3
74643	23.6
74646	15.3
74647	20.0
74649	14.4
74652	12.0
74653	16.5
74658	13.7
74659	15.0
74663	12.7
74680	13.5
74688	16.4
74692	16.9
74695	15.9
74697	17.0
74702	14.7
74703	12.7
74705	13.3
74713	11.5
74718	17.2

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 155 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]  
HTM-IVOS

PAGE 8

MALE GROUP: 2500 PPM

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ANIMAL	LEFT TESTIS
74720	13.5
74723	12.6
74725	16.7
74726	19.5
74728	14.1
MEAN	15.4
S.D.	2.75
N	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 1

MALE GROUP: 0 PPM

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ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74602	85	70
74603	74	53
74610	90	81
74614	91	74
74616	88	82
74620	91	79
74627	92	80
74630	90	80
74632	91	73
74633	86	72
74636	90	79
74644	41	24
74645	93	85
74648	92	77
74656	1	1
74660	89	78
74664	78	65
74665	78	72
74669	91	79
74677	94	82
74681	81	67
74682	90	80
74686	79	67
74696	89	71
74698	77	62

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74700	85	74
74701	82	74
74707	94	80
74711	98	88
74724	91	78
MEAN	83.0	70.9
S.D.	18.60	17.71
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74601	74	50
74604	92	77
74605	83	75
74609	86	75
74612	82	68
74613	19	7
74621	53	33
74625	94	80
74626	94	87
74634	45	26
74641	84	74
74642	81	67
74655	89	68
74662	95	82
74666	25	16
74667	83	70
74671	82	74
74673	91	79
74676	90	79
74685	95	77
74689	86	74
74690	88	84
74704	92	82
74708	86	76
74709	77	65

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74712	82	76
74715	87	74
74722	57	34
74729	77	67
74733	81	69
MEAN	78.3	65.5
S.D.	19.39	20.89
N	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 5

MALE GROUP: 1000 MG/KG/DAY

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74606	85	73
74607	82	71
74608	93	87
74611	92	82
74615	80	67
74617	89	72
74618	92	87
74619	86	74
74622	88	79
74638	92	84
74639	86	70
74650	89	80
74661	89	80
74668	88	74
74670	84	76
74674	94	85
74675	85	73
74679	91	80
74683	90	84
74684	80	69
74691	69	57
74693	92	82
74699	90	80
74706	0-A	0-A
74710	76	67

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEANS

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74717	91	85
74719	88	72
74727	35	19
74734	73	57
74735	87	79
MEAN	84.7	74.0
S.D.	11.31	13.18
N	29	29

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74624	82	70
74628	68	53
74629	90	83
74631	78	71
74635	82	69
74640	91	85
74643	93	84
74646	93	83
74647	80	58
74649	84	71
74652	97	88
74653	82	60
74658	78	66
74659	81	62
74663	87	76
74680	89	79
74688	78	68
74692	87	78
74695	86	75
74697	95	84
74702	93	83
74703	79	50
74705	92	80
74713	61	38
74718	89	74

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 156 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74720	86	76
74723	85	77
74725	83	72
74726	83	67
74728	88	76
MEAN	84.7	71.9
S.D.	7.70	11.51
N	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74602	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74603	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74610	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74614	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74616	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74620	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74627	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74630	98.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
74632	97.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
74633	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74636	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74644	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74645	96.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
74648	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74656	70.0	18.0	12.0	0.0	0.0	0.0	0.0	0.0
74660	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74664	98.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0
74665	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74669	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74677	97.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
74681	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74682	96.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0
74686	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74696	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74698	98.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74700	96.0	2.5	1.5	0.0	0.0	0.0	0.0	0.0
74701	96.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
74707	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74711	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74724	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	97.9	1.3	0.8	0.0	0.0	0.0	0.0	0.0
S.D.	5.43	3.31	2.18	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74601	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74604	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74605	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74609	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74612	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74613	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74621	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74625	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74626	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74634	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74641	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74642	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74655	94.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
74662	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74666	72.0	13.0	15.0	0.0	0.0	0.0	0.0	0.0
74667	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74671	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74673	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74676	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74685	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74689	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74690	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74704	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74708	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74709	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0

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TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74712	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74715	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74722	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74729	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74733	98.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0
MEAN	98.2	1.0	0.8	0.0	0.0	0.0	0.0	0.0
S.D.	5.08	2.42	2.72	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74606	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74607	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74608	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74611	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74615	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74617	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74618	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74619	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74622	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74638	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74639	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74650	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74661	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74668	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74670	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74674	97.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
74675	96.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0
74679	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74683	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74684	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74691	97.5	0.5	2.0	0.0	0.0	0.0	0.0	0.0
74693	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74699	98.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
74706	100.0-A	0.0-A	0.0-A	0.0-A	0.0-A	0.0-A	0.0-A	0.0-A
74710	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74717	98.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
74719	95.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
74727	60.5	15.5	24.0	0.0	0.0	0.0	0.0	0.0
74734	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74735	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
MEAN	97.5	1.1	1.3	0.0	0.0	0.0	0.0	0.0
S.D.	7.22	2.86	4.41	0.00	0.00	0.00	0.00	0.00
N	29	29	29	29	29	29	29	29

TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74624	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74628	0.5	0.0	15.0	0.0	84.5	0.0	0.0	0.0
74629	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74631	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74635	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74640	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74643	98.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
74646	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74647	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74649	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74652	98.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
74653	97.5	0.5	2.0	0.0	0.0	0.0	0.0	0.0
74658	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74659	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74663	97.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0
74680	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74688	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74692	97.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0
74695	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74697	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74702	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74703	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74705	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74713	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74718	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 157 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

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MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74720	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74723	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74725	98.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
74726	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74728	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	95.9	0.5	0.8	0.0	2.8	0.0	0.0	0.0
S.D.	18.03	0.59	2.72	0.00	15.43	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74602	200	0	0	0	0	0	0	0
74603	199	1	0	0	0	0	0	0
74610	200	0	0	0	0	0	0	0
74614	200	0	0	0	0	0	0	0
74616	199	1	0	0	0	0	0	0
74620	199	0	1	0	0	0	0	0
74627	200	0	0	0	0	0	0	0
74630	196	2	2	0	0	0	0	0
74632	194	3	3	0	0	0	0	0
74633	200	0	0	0	0	0	0	0
74636	199	0	1	0	0	0	0	0
74644	200	0	0	0	0	0	0	0
74645	193	7	0	0	0	0	0	0
74648	199	1	0	0	0	0	0	0
74656	140	36	24	0	0	0	0	0
74660	198	1	1	0	0	0	0	0
74664	197	1	2	0	0	0	0	0
74665	198	1	1	0	0	0	0	0
75669	199	0	1	0	0	0	0	0
74677	194	3	3	0	0	0	0	0
74681	200	0	0	0	0	0	0	0
74682	193	5	2	0	0	0	0	0
74686	198	1	1	0	0	0	0	0
74696	200	0	0	0	0	0	0	0
74698	197	1	2	0	0	0	0	0

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

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MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74700	192	5	3	0	0	0	0	0
74701	192	7	1	0	0	0	0	0
74707	199	1	0	0	0	0	0	0
74711	198	2	0	0	0	0	0	0
74724	200	0	0	0	0	0	0	0
MEAN	195.8	2.6	1.6	0.0	0.0	0.0	0.0	0.0
S.D.	10.86	6.62	4.35	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74601	200	0	0	0	0	0	0	0
74604	200	0	0	0	0	0	0	0
74605	198	1	1	0	0	0	0	0
74609	199	0	1	0	0	0	0	0
74612	198	1	1	0	0	0	0	0
74613	199	1	0	0	0	0	0	0
74621	199	1	0	0	0	0	0	0
74625	200	0	0	0	0	0	0	0
74626	197	2	1	0	0	0	0	0
74634	200	0	0	0	0	0	0	0
74641	199	1	0	0	0	0	0	0
74642	200	0	0	0	0	0	0	0
74655	188	9	3	0	0	0	0	0
74662	198	2	0	0	0	0	0	0
74666	144	26	30	0	0	0	0	0
74667	199	1	0	0	0	0	0	0
74671	198	2	0	0	0	0	0	0
74673	200	0	0	0	0	0	0	0
74676	197	2	1	0	0	0	0	0
74685	198	1	1	0	0	0	0	0
74689	197	3	0	0	0	0	0	0
74690	200	0	0	0	0	0	0	0
74704	199	1	0	0	0	0	0	0
74708	198	0	2	0	0	0	0	0
74709	199	0	1	0	0	0	0	0

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

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MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74712	199	0	1	0	0	0	0	0
74715	198	1	1	0	0	0	0	0
74722	198	1	1	0	0	0	0	0
74729	199	1	0	0	0	0	0	0
74733	196	1	3	0	0	0	0	0
MEAN	196.5	1.9	1.6	0.0	0.0	0.0	0.0	0.0
S.D.	10.15	4.85	5.43	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74606	197	3	0	0	0	0	0	0
74607	199	1	0	0	0	0	0	0
74608	199	0	1	0	0	0	0	0
74611	200	0	0	0	0	0	0	0
74615	198	1	1	0	0	0	0	0
74617	200	0	0	0	0	0	0	0
74618	198	1	1	0	0	0	0	0
74619	199	0	1	0	0	0	0	0
74622	198	2	0	0	0	0	0	0
74638	198	0	2	0	0	0	0	0
74639	199	1	0	0	0	0	0	0
74650	199	1	0	0	0	0	0	0
74661	200	0	0	0	0	0	0	0
74668	198	0	2	0	0	0	0	0
74670	199	0	1	0	0	0	0	0
74674	194	4	2	0	0	0	0	0
74675	193	3	4	0	0	0	0	0
74679	200	0	0	0	0	0	0	0
74683	199	1	0	0	0	0	0	0
74684	200	0	0	0	0	0	0	0
74691	195	1	4	0	0	0	0	0
74693	197	3	0	0	0	0	0	0
74699	197	0	3	0	0	0	0	0
74706	9-A	0-A	0-A	0-A	0-A	0-A	0-A	0-A
74710	199	0	1	0	0	0	0	0

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74717	196	3	1	0	0	0	0	0
74719	190	6	4	0	0	0	0	0
74727	121	31	48	0	0	0	0	0
74734	198	2	0	0	0	0	0	0
74735	197	2	1	0	0	0	0	0
MEAN	195.1	2.3	2.7	0.0	0.0	0.0	0.0	0.0
S.D.	14.43	5.73	8.82	0.00	0.00	0.00	0.00	0.00
N	29	29	29	29	29	29	29	29

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

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MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74624	199	1	0	0	0	0	0	0
74628	1	0	30	0	169	0	0	0
74629	199	1	0	0	0	0	0	0
74631	200	0	0	0	0	0	0	0
74635	199	0	1	0	0	0	0	0
74640	200	0	0	0	0	0	0	0
74643	196	2	2	0	0	0	0	0
74646	198	2	0	0	0	0	0	0
74647	200	0	0	0	0	0	0	0
74649	198	0	2	0	0	0	0	0
74652	196	4	0	0	0	0	0	0
74653	195	1	4	0	0	0	0	0
74658	198	1	1	0	0	0	0	0
74659	197	3	0	0	0	0	0	0
74663	195	3	2	0	0	0	0	0
74680	200	0	0	0	0	0	0	0
74688	197	2	1	0	0	0	0	0
74692	195	2	3	0	0	0	0	0
74695	198	1	1	0	0	0	0	0
74697	198	2	0	0	0	0	0	0
74702	199	1	0	0	0	0	0	0
74703	200	0	0	0	0	0	0	0
74705	199	1	0	0	0	0	0	0
74713	200	0	0	0	0	0	0	0
74718	199	0	1	0	0	0	0	0

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 158 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

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MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74720	200	0	0	0	0	0	0	0
74723	200	0	0	0	0	0	0	0
74725	196	3	1	0	0	0	0	0
74726	199	0	1	0	0	0	0	0
74728	200	0	0	0	0	0	0	0
MEAN	191.7	1.0	1.7	0.0	5.6	0.0	0.0	0.0
S.D.	36.06	1.17	5.45	0.00	30.86	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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 09/05/2002  
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PROJECT NO.:WIL-186013F  
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TABLE 159 (F0 FEMALES - UNSCHEDULED DEATH)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 1

ANIMAL NO. 74805 GROUP 2: 500 PPM FEMALE EUTH IN EXTREMIS 12/07/01 DATE OF DEATH: 12/07/01 STUDY DAY: 94  
 -----  
 GRADE

GENERAL COMMENT	GROSS: DELIVERED UTERUS: LEFT- 4 RETAINED FETUSES; 6 FORMER IMPLANTATION SITES; RIGHT- 6 FORMER IMPLANTATION SITES FETAL GROSS: 4 FETUSES, NO APPARENT MALFORMATIONS; 1 MALE, 3 FEMALES DELIVERED: 12 PUPS, NO APPARENT MALFORMATION; 4 MALES, 8 FEMALES	P
GENERAL COMMENT	GROSS: CORPORA LUTEA (LEFT,RIGHT) 10,6	P
GENERAL COMMENT	GROSS: IMPLANTATION SITES (LEFT,RIGHT) 10,6	P
GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
ILEUM	GROSS: CONTENTS, DARK RED	P
JEJUNUM	GROSS: CONTENTS, DARK RED	P
KIDNEYS	MICRO: CAST, GRANULAR MEDULLA	2
	NECROSIS, TUBULAR ACUTE; OUTER CORTEX	4
LIVER	MICRO: NECROSIS, HEPATOCELLULAR, CENTRILOBULAR	3
OVIDUCTS	MICRO: NO SIGNIFICANT CHANGES OBSERVED ONE OVIDUCT EXAMINED; OTHER NOT PRESENT AT TRIMMING	
OVARIES	MICRO: CYST ONE OVARY EXAMINED; OTHER NOT PRESENT AT TRIMMING	1
PITUITARY	GROSS: PALE	P
PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED NO CORRELATE TO GROSS PALLOR	
SPLEEN	MICRO: DEPLETION, LYMPHOID	3

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 159 (F0 FEMALES - UNSCHEDULED DEATH)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 2

ANIMAL NO. 74805 GROUP 2: 500 PPM FEMALE EUTH IN EXTREMIS 12/07/01 DATE OF DEATH: 12/07/01 STUDY DAY: 94  
 -----  
 GRADE

THYMUS	MICRO: NECROSIS, LYMPHOID	3
UTERUS	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH LATE GESTATION	
VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH PROESTRUS	
CERVIX	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH LATE GESTATION	
CAUSE OF DEATH	MICRO: RENAL NECROSIS MULTIORGAN FAILURE (SIGNIFICANT LIVER NECROSIS ALSO)	P
NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS    AORTA                    STERNEBRAE            BRAIN CECUM                    COLON                    DUODENUM              ESOPHAGUS EYES/OPTIC N.        HEART                    KIDNEYS                LIVER LYMPH NODE, MES    LUNGS                    MAMMARY GLAND        NERVE, SCIATIC OVIDUCTS              OVARIES                 PANCREAS               RECTUM SPINAL CORD         SAL. GLAND MAND        STOMACH                SKELETAL MUSCLE SKIN                    SPLEEN                    THYROID GLANDS        THYMUS TRACHEA              URINARY BLADDER        UTERUS                 VAGINA CERVIX MICRO:ADRENAL CORTEX    ADRENAL MEDULLA    BRAIN                    OVIDUCTS PITUITARY                UTERUS                    VAGINA                 CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT  
 MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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 12/11/2002

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**FINAL REPORT**

Volume 4 of 10  
(Individual Tables 160-169)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 160 - 169**

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 1

ANIMAL NO. 74602 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.00	0.388		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.85	3.078		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.50	0.680		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.63	0.122		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.35	0.456		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.96	0.186		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.55	0.301		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.63	0.317		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.64	0.124		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.142					
RIGHT CAUDA EPID	0.2562	0.050					
LEFT CAUDA EPID	0.3642	0.071					
THYMUS	0.1835	0.036					
ADRENAL GLANDS	0.0496	0.010					
PITUITARY	0.0202	0.004					
FINAL BODY WT(G)	515.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 2

ANIMAL NO. 74603 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.01	0.441		BILATERAL					P
LIVER	16.18	3.548	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	2.99	0.656		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.53	0.116	NO SIGNIFICANT						
SEM VES/CG/FLUID	2.08	0.456	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	0.96	0.211		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.72	0.377		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.66	0.364		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.74	0.162		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.70	0.154		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.3138	0.069		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3384	0.074		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.0891	0.020		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0490	0.011		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0110	0.002							
FINAL BODY WT(G)	456.								

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PROJECT NO.:WIL-186013M  
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TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74603 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 4

ANIMAL NO. 74610 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.								
BRAIN	2.25	0.451	KIDNEYS	MICRO: MINERALIZATION, TUBULAR						1
LIVER	17.04	3.415	LIVER	MICRO: BASOPHILIC TUBULES						1
KIDNEYS	3.45	0.691	PROSTATE	MICRO: INFILTRATE, MONONUCLEAR						1
SPLEEN	0.81	0.162		MICRO: CELLULAR DEBRIS						1
SEM VES/CG/FLUID	2.42	0.485		INTRALUMINAL						
PROSTATE	1.14	0.228	NO SIGNIFICANT	INFILTRATE, LYMPHOCYTE						1
RIGHT TESTIS	1.83	0.367	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT TESTIS	1.76	0.353		CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT EPIDIDYMIS	0.74	0.148		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT EPIDIDYMIS	0.75	0.150		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
RIGHT CAUDA EPID	0.3204	0.064		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
LEFT CAUDA EPID	0.3488	0.070		PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
THYMUS	0.2110	0.042		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
ADRENAL GLANDS	0.0651	0.013		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
PITUITARY	0.0183	0.004		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
FINAL BODY WT(G)	499.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS			
				RIGHT EPIDIDYMIS	COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74614 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	2.09	0.406		FOCAL; ZONA FASCICULATA					1
LIVER	15.79	3.066	KIDNEYS	MICRO: VACUOLATION, CYTOPLASMIC					1
KIDNEYS	3.38	0.656		TUBULAR EPITHELIUM IN CORTEX; FOCAL					
SPLEEN	0.83	0.161		MINERALIZATION, TUBULAR					1
SEM VES/CG/FLUID	2.22	0.431		MEDULLA					
PROSTATE	1.09	0.212		INFLAMMATION, SUBACUTE					1
RIGHT TESTIS	1.94	0.377	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
LEFT TESTIS	1.92	0.373		BILATERAL					
RIGHT EPIDIDYMIS	0.73	0.142	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
LEFT EPIDIDYMIS	0.76	0.148		CORRELATES TO GROSS RED DISCOLORATION					
RIGHT CAUDA EPID	0.3177	0.062	THYMUS	MICRO: HEMORRHAGE					2
LEFT CAUDA EPID	0.3482	0.068	NO SIGNIFICANT						
THYMUS	0.2409	0.047	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
ADRENAL GLANDS	0.0718	0.014		CECUM	COLON	DUODENUM	ESOPHAGUS		
PITUITARY	0.0166	0.003		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
FINAL BODY WT(G)	515.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	LIVER	PITUITARY		
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74616 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.08	0.386	PROSTATE	MICRO: INFLAMMATION, SUBACUTE				1
LIVER	17.36	3.221	SPLEEN	MICRO: PIGMENT, BROWN				1
KIDNEYS	3.48	0.646	THYMUS	MICRO: HEMORRHAGE				1
SPLEEN	0.47	0.087	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE				1
SEM VES/CG/FLUID	1.91	0.354	NO SIGNIFICANT					
PROSTATE	1.19	0.221	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.41	0.262		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.42	0.263		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.73	0.135		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.69	0.128		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.3553	0.066		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3573	0.066		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.1169	0.022		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0682	0.013		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0129	0.002		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	539.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				PITUITARY	SEMINAL VESICLES	RIGHT TESTIS	COAGULATING GL	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74620 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.								
BRAIN	1.98	0.360	KIDNEYS	GROSS: AREA(S), DEPRESSED						P
LIVER	19.73	3.587	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE						2
KIDNEYS	4.14	0.753		MULTIFOCAL IN CORTEX; ALSO UNDER EPITHELIUM OF PELVIS						
SPLEEN	0.82	0.149		BASOPHILIC TUBULES						2
SEM VES/CG/FLUID	1.81	0.329		FOCALLY MODERATE; CORRELATES TO GROSS DEPRESSED AREA						
PROSTATE	1.07	0.195	LIVER	MICRO: VACUOLATION, CYTOPLASMIC						1
RIGHT TESTIS	1.91	0.347	THYMUS	MICRO: HEMORRHAGE						2
LEFT TESTIS	1.87	0.340	LYMPH NODE, MED	GROSS: ENLARGED						P
RIGHT EPIDIDYMIS	0.81	0.147	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID						1
LEFT EPIDIDYMIS	0.89	0.162		CORRELATES TO GROSS ENLARGEMENT						
RIGHT CAUDA EPID	0.3402	0.062	NO SIGNIFICANT							
LEFT CAUDA EPID	0.4049	0.074	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
THYMUS	0.2349	0.043		CECUM	COLON	DUODENUM	ESOPHAGUS			
ADRENAL GLANDS	0.0676	0.012		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
PITUITARY	0.0163	0.003		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND			
FINAL BODY WT(G)	550.			NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY			
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND			
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN			
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA			
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS			
				RIGHT EPIDIDYMIS	COAGULATING GL					
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS			
				RIGHT EPIDIDYMIS	COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74627 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: MINERALIZATION, TUBULAR FIBROSIS, INTERSTITIAL FOCAL				
BRAIN	2.19	0.362						1
LIVER	20.54	3.395						1
KIDNEYS	3.81	0.630	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.88	0.145	PROSTATE	MICRO: INFLAMMATION, SUBACUTE				2
SEM VES/CG/FLUID	2.77	0.458	THYMUS	MICRO: HEMORRHAGE				1
PROSTATE	1.29	0.213	NO SIGNIFICANT CHANGES OBSERVED					
RIGHT TESTIS	1.83	0.302		GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.86	0.307		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.72	0.119		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.70	0.116		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.3077	0.051		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.2436	0.040		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.2068	0.034		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0599	0.010		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0187	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	605.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74630 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.							
BRAIN	2.09	0.352	KIDNEYS	MICRO: MINERALIZATION, TUBULAR					1
LIVER	17.18	2.892		INFLAMMATION, SUBACUTE					1
KIDNEYS	3.61	0.608	LYMPH NODE, MAND	GROSS: ENLARGED					P
SPLEEN	0.84	0.141		BILATERAL					
SEM VES/CG/FLUID	2.26	0.380	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
PROSTATE	1.37	0.231		HYPERPLASIA, LYMPHOID					2
RIGHT TESTIS	1.95	0.328		CORRELATES TO GROSS ENLARGEMENT					
LEFT TESTIS	1.89	0.318	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
RIGHT EPIDIDYMIS	0.81	0.136	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
LEFT EPIDIDYMIS	0.72	0.121	THYMUS	MICRO: HEMORRHAGE					1
RIGHT CAUDA EPID	0.3433	0.058	TEETH	GROSS: MALALIGNED					P
LEFT CAUDA EPID	0.3345	0.056		UPPER INCISOR, BILATERAL					
THYMUS	0.2173	0.037	LYMPH NODE, BRON	GROSS: ENLARGED					P
ADRENAL GLANDS	0.0540	0.009	LYMPH NODE, BRON	MICRO: HYPERPLASIA, LYMPHOID					2
PITUITARY	0.0191	0.003		CORRELATES TO GROSS ENLARGEMENT					
FINAL BODY WT(G)	594.		NO SIGNIFICANT						
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
				CECUM	COLON	DUODENUM	ESOPHAGUS		
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74630 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74632 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	BRAIN	MICRO: FIBROSIS				
BRAIN	2.04	0.400		FOCAL; MENINGES; CEREBELLUM				2
LIVER	16.59	3.253	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
KIDNEYS	3.66	0.718	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.92	0.180	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SEM VES/CG/FLUID	2.10	0.412	NO SIGNIFICANT					
PROSTATE	0.66	0.129	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.99	0.390		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	2.01	0.394		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.74	0.145		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.84	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.3182	0.062		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3441	0.067		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.1645	0.032		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0664	0.013		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0163	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	510.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	PITUITARY	SPLEEN	
				SEMINAL VESICLES	THYMUS	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74633 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	2.15	0.390		ZONA FASCICULATA					1
LIVER	17.53	3.181	KIDNEYS	MICRO: BASOPHILIC TUBULES					1
KIDNEYS	3.81	0.691		DILATATION, TUBULAR					2
SPLEEN	0.84	0.152		MEDULLA					
SEM VES/CG/FLUID	2.67	0.485	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
PROSTATE	1.02	0.185	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					2
RIGHT TESTIS	1.91	0.347	THYMUS	MICRO: HEMORRHAGE					1
LEFT TESTIS	1.92	0.348	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.76	0.138	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.68	0.123		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.3307	0.060		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2673	0.049		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2198	0.040		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0568	0.010		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0203	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
FINAL BODY WT(G)	551.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	SPLEEN		
				SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74636 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.441		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.58	3.044		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.27	0.683		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.83	0.173		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.85	0.386		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.25	0.261		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.82	0.380		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.80	0.376		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.67	0.140		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.70	0.146					
RIGHT CAUDA EPID	0.3009	0.063					
LEFT CAUDA EPID	0.3287	0.069					
THYMUS	0.2331	0.049					
ADRENAL GLANDS	0.0538	0.011					
PITUITARY	0.0125	0.003					
FINAL BODY WT(G)	479.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74644 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.05	0.387		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.44	3.479		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.79	0.715		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.71	0.134		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.58	0.487		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.85	0.160		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.76	0.332		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.80	0.340		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.62	0.117		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.69	0.130					
RIGHT CAUDA EPID	0.2584	0.049					
LEFT CAUDA EPID	0.3411	0.064					
THYMUS	0.2172	0.041					
ADRENAL GLANDS	0.0606	0.011					
PITUITARY	0.0145	0.003					
FINAL BODY WT(G)	530.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74645 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.							
BRAIN	2.19	0.402	KIDNEYS	MICRO: MINERALIZATION, TUBULAR					1
LIVER	19.44	3.567		INFLAMMATION, SUBACUTE					1
KIDNEYS	3.81	0.699	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SPLEEN	0.74	0.136	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
SEM VES/CG/FLUID	2.49	0.457	THYMUS	MICRO: HEMORRHAGE					1
PROSTATE	1.06	0.194	NO SIGNIFICANT						
RIGHT TESTIS	1.62	0.297	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.82	0.334		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.66	0.121		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.66	0.121		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.2793	0.051		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3343	0.061		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.2739	0.050		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0832	0.015		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0153	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	545.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74648 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.08	0.374		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.59	2.984		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.81	0.685		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.71	0.128		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.96	0.532		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.61	0.290		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.91	0.344		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.97	0.354		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.79	0.142		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.140					
RIGHT CAUDA EPID	0.3511	0.063					
LEFT CAUDA EPID	0.3908	0.070					
THYMUS	0.2184	0.039					
ADRENAL GLANDS	0.0630	0.011					
PITUITARY	0.0171	0.003					
FINAL BODY WT(G)	556.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74656 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	THYMUS	MICRO: HEMORRHAGE					
BRAIN	2.20	0.387	RIGHT TESTIS	GROSS: SOFT					P
LIVER	20.93	3.685	RIGHT TESTIS	MICRO: GIANT CELL					2
KIDNEYS	3.48	0.613		INTRALUMINAL					
SPLEEN	0.89	0.157		VACUOLATION, SEMINIFEROUS EPITHELIUM					2
SEM VES/CG/FLUID	2.54	0.447		CORRELATES WITH GROSS SOFTNESS					
PROSTATE	0.75	0.132	LEFT TESTIS	GROSS: SOFT					P
RIGHT TESTIS	1.56	0.275	LEFT EPIDIDYMIS	GROSS: SOFT					P
LEFT TESTIS	1.37	0.241	RIGHT EPIDIDYMIS	GROSS: SOFT					P
RIGHT EPIDIDYMIS	0.53	0.093	RIGHT EPIDIDYMIS	MICRO: CELLULAR DEBRIS					2
LEFT EPIDIDYMIS	0.50	0.088		INTRALUMINAL; CORRELATES WITH GROSS SOFTNESS					
RIGHT CAUDA EPID	0.1539	0.027	NO SIGNIFICANT						
LEFT CAUDA EPID	0.1915	0.034	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
THYMUS	0.3633	0.064		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0576	0.010		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0171	0.003		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
FINAL BODY WT(G)	568.			MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS		
				LIVER	PITUITARY	PROSTATE	SPLEEN		
				SEMINAL VESICLES	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74660 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: MINERALIZATION, TUBULAR CORTEX				
BRAIN	2.13	0.384						1
LIVER	17.72	3.193		INFLAMMATION, SUBACUTE				1
KIDNEYS	3.90	0.703	PITUITARY	MICRO: CYST, PARS NERVOSA				2
SPLEEN	0.74	0.133	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SEM VES/CG/FLUID	1.90	0.342	RIGHT EPIDIDYMIS	MICRO: CELLULAR DEBRIS				1
PROSTATE	0.91	0.164		INFILTRATE, LYMPHOCYTE				1
RIGHT TESTIS	1.85	0.333	NO SIGNIFICANT					
LEFT TESTIS	1.82	0.328	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT EPIDIDYMIS	0.74	0.133		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT EPIDIDYMIS	0.74	0.133		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT CAUDA EPID	0.3152	0.057		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT CAUDA EPID	0.3289	0.059		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
THYMUS	0.3579	0.064		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
ADRENAL GLANDS	0.0522	0.009		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
PITUITARY	0.0187	0.003		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
FINAL BODY WT(G)	555.			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74664 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	TEETH	GROSS: MISSING				
BRAIN	1.92	0.471		UPPER INCISOR, RIGHT				P
LIVER	11.48	2.814	NO SIGNIFICANT					
KIDNEYS	2.86	0.701	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.70	0.172		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.05	0.502		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	0.75	0.184		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.82	0.446		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.82	0.446		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.68	0.167		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT EPIDIDYMIS	0.71	0.174		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
RIGHT CAUDA EPID	0.2142	0.053		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
LEFT CAUDA EPID	0.3339	0.082		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
THYMUS	0.1862	0.046						
ADRENAL GLANDS	0.0537	0.013						
PITUITARY	0.0174	0.004						
FINAL BODY WT(G)	408.							

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74665 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.								
BRAIN	2.29	0.401	KIDNEYS	MICRO: BASOPHILIC TUBULES						2
LIVER	18.92	3.313		INFLAMMATION, SUBACUTE						1
KIDNEYS	3.94	0.690	LIVER	MICRO: INFILTRATE, MONONUCLEAR						1
SPLEEN	1.04	0.182	PROSTATE	MICRO: INFLAMMATION, SUBACUTE						1
SEM VES/CG/FLUID	1.98	0.347	THYMUS	MICRO: HEMORRHAGE						1
PROSTATE	1.45	0.254	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED						
RIGHT TESTIS	2.15	0.377		ONE COAGULATING GLAND EXAMINED; OTHER NOT IN PLANE; RECUT						
LEFT TESTIS	2.11	0.370		EVALUATED						
RIGHT EPIDIDYMIS	0.75	0.131	NO SIGNIFICANT							
LEFT EPIDIDYMIS	0.79	0.138	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
RIGHT CAUDA EPID	0.3106	0.054		CECUM	COLON	DUODENUM	ESOPHAGUS			
LEFT CAUDA EPID	0.2960	0.052		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
THYMUS	0.2465	0.043		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
ADRENAL GLANDS	0.0837	0.015		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
PITUITARY	0.0179	0.003		PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
FINAL BODY WT(G)	571.			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS			
				COAGULATING GL						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74669 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	1.97	0.417		ZONA FASCICULATA					1
LIVER	13.78	2.919	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.54	0.750	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.72	0.153	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
SEM VES/CG/FLUID	1.72	0.364		ONE COAGULATING GLAND EXAMINED; OTHER NOT IN PLANE; RECUT					
PROSTATE	1.35	0.286		EVALUATED					
RIGHT TESTIS	1.91	0.405	NO SIGNIFICANT						
LEFT TESTIS	1.87	0.396	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT EPIDIDYMIS	0.71	0.150		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT EPIDIDYMIS	0.75	0.159		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT CAUDA EPID	0.3210	0.068		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT CAUDA EPID	0.3652	0.077		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
THYMUS	0.2910	0.062		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
ADRENAL GLANDS	0.0746	0.016		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
PITUITARY	0.0155	0.003		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
FINAL BODY WT(G)	472.			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	KIDNEYS	PITUITARY		
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74677 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	2.26	0.386		INFLAMMATION, SUBACUTE				1
LIVER	20.79	3.554	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	3.91	0.668	SPLEEN	MICRO: CYST				1
SPLEEN	0.90	0.154	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	2.54	0.434	NO SIGNIFICANT					
PROSTATE	1.21	0.207	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	2.04	0.349		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	2.07	0.354		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.78	0.133		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.74	0.126		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.2796	0.048		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3134	0.054		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.1759	0.030		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0622	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0161	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	585.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				PROSTATE	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74681 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	2.28	0.397		ZONA FASCICULATA					1
LIVER	16.50	2.870	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.49	0.607	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SPLEEN	0.61	0.106	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					2
SEM VES/CG/FLUID	2.48	0.431	THYMUS	MICRO: HEMORRHAGE					1
PROSTATE	0.97	0.169	NO SIGNIFICANT						
RIGHT TESTIS	1.65	0.287	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.79	0.311		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.80	0.139		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.75	0.130		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.3175	0.055		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3249	0.057		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.1761	0.031		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0482	0.008		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0120	0.002		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	575.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	SPLEEN		
				SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74682 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	JEJUNUM	GROSS: DIVERTICULUM					
BRAIN	2.03	0.434		ONE, 15 X 8 X 5 MM					P
LIVER	13.39	2.861	JEJUNUM	MICRO: DIVERTICULUM					P
KIDNEYS	3.15	0.673		CONFIRM GROSS OBSERVATION; TISSUE ARCHITECTURE OTHERWISE					
SPLEEN	0.64	0.137		NORMAL					
SEM VES/CG/FLUID	1.83	0.391	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
PROSTATE	0.64	0.137		BASOPHILIC TUBULES					1
RIGHT TESTIS	1.68	0.359	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LEFT TESTIS	1.71	0.365	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.71	0.152	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.67	0.143		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2994	0.064		EYES/OPTIC N.	HEART	ILEUM	KIDNEYS		
LEFT CAUDA EPID	0.2983	0.064		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
THYMUS	0.1061	0.023		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
ADRENAL GLANDS	0.0519	0.011		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
PITUITARY	0.0133	0.003		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
FINAL BODY WT(G)	468.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				PROSTATE	SPLEEN	SEMINAL VESICLES	THYMUS		
				RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74686 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.07	0.372		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.83	3.387		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.83	0.689		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.146		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.94	0.529		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.17	0.210		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.84	0.331		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.86	0.335		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.86	0.155		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.140					
RIGHT CAUDA EPID	0.3143	0.057					
LEFT CAUDA EPID	0.3584	0.064					
THYMUS	0.2775	0.050					
ADRENAL GLANDS	0.0537	0.010					
PITUITARY	0.0168	0.003					
FINAL BODY WT(G)	556.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74696 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.26	0.394		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.78	3.277		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.59	0.627		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.88	0.154		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.34	0.408		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.04	0.182		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.86	0.325		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.89	0.330		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.80	0.140		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.80	0.140					
RIGHT CAUDA EPID	0.3127	0.055					
LEFT CAUDA EPID	0.3351	0.058					
THYMUS	0.2269	0.040					
ADRENAL GLANDS	0.0522	0.009					
PITUITARY	0.0151	0.003					
FINAL BODY WT(G)	573.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74698 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED			
BRAIN	2.01	0.310		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT EXAMINED			
LIVER	20.77	3.205					
KIDNEYS	4.17	0.644	KIDNEYS	GROSS: AREA(S), DEPRESSED			P
SPLEEN	0.97	0.150		ONE, 5 X 4 X 2 MM, IN CORTEX, RIGHT			
SEM VES/CG/FLUID	2.79	0.431	KIDNEYS	MICRO: DILATATION, TUBULAR			1
PROSTATE	1.57	0.242		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA			
RIGHT TESTIS	1.80	0.278		MINERALIZATION, PELVIC			1
LEFT TESTIS	1.79	0.276		UNILATERAL			
RIGHT EPIDIDYMIS	0.73	0.113		HYPERPLASIA, TRANSITIONAL CELL			1
LEFT EPIDIDYMIS	0.77	0.119		UNILATERAL			
RIGHT CAUDA EPID	0.2636	0.041		INFLAMMATION, SUBACUTE			1
LEFT CAUDA EPID	0.3189	0.049	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED			P
THYMUS	0.2266	0.035		BILATERAL			
ADRENAL GLANDS	0.0697	0.011	LYMPH NODE, MAND	MICRO: HEMORRHAGE			2
PITUITARY	0.0177	0.003		CORRELATES TO GROSS RED DISCOLORATION			
FINAL BODY WT(G)	648.		LIVER	MICRO: INFILTRATE, MONONUCLEAR			1
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
				CECUM	COLON	DUODENUM	ESOPHAGUS
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
				LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND
				NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74698 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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URINARY BLADDER RIGHT TESTIS LEFT TESTIS LEFT EPIDIDYMIS  
RIGHT EPIDIDYMIS COAGULATING GL  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN PITUITARY  
PROSTATE SPLEEN SEMINAL VESICLES THYMUS  
RIGHT TESTIS RIGHT EPIDIDYMIS COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74700 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.458		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.15	3.069		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.94	0.638		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.64	0.139		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.27	0.492		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.40	0.304		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	2.05	0.445		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.04	0.443		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.79	0.171		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.163					
RIGHT CAUDA EPID	0.3190	0.069					
LEFT CAUDA EPID	0.3553	0.077					
THYMUS	0.1048	0.023					
ADRENAL GLANDS	0.0478	0.010					
PITUITARY	0.0123	0.003					
FINAL BODY WT(G)	461.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74701 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	1.91	0.428	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
LIVER	14.59	3.271	THYMUS	MICRO: HEMORRHAGE				1
KIDNEYS	2.71	0.608		ON SLIDE 13				
SPLEEN	0.65	0.146	TEETH	GROSS: MISSING				P
SEM VES/CG/FLUID	1.83	0.410		UPPER INCISOR, LEFT				
PROSTATE	0.93	0.209	NO SIGNIFICANT					
RIGHT TESTIS	1.86	0.417	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	2.00	0.448		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.71	0.159		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.73	0.164		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.2657	0.060		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.3286	0.074		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.1461	0.033		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0485	0.011		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0167	0.004		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	446.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74707 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.19	0.376		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	20.05	3.445		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.21	0.723		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.86	0.148		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.21	0.380		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.47	0.253		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.91	0.328		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.95	0.335		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.83	0.143		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.125					
RIGHT CAUDA EPID	0.3831	0.066					
LEFT CAUDA EPID	0.2857	0.049					
THYMUS	0.1747	0.030					
ADRENAL GLANDS	0.0499	0.009					
PITUITARY	0.0147	0.003					
FINAL BODY WT(G)	582.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74711 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LIVER	MICRO: INFILTRATE, MONONUCLEAR				
BRAIN	2.18	0.400	NO SIGNIFICANT					1
LIVER	18.44	3.383	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
KIDNEYS	3.99	0.732		CECUM	COLON	DUODENUM	ESOPHAGUS	
SPLEEN	0.97	0.178		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
SEM VES/CG/FLUID	2.87	0.527		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PROSTATE	1.22	0.224		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT TESTIS	1.79	0.328		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT TESTIS	1.82	0.334		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT EPIDIDYMIS	0.83	0.152		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT EPIDIDYMIS	0.79	0.145		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
RIGHT CAUDA EPID	0.3760	0.069		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
LEFT CAUDA EPID	0.3403	0.062		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
THYMUS	0.2011	0.037		PITUITARY	PROSTATE	SPLEEN	SEMINAL VESICLES	
ADRENAL GLANDS	0.0745	0.014		THYMUS	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL	
PITUITARY	0.0160	0.003						
FINAL BODY WT(G)	545.							

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74724 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.25	0.399		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.65	3.307		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.90	0.691		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.92	0.163		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.27	0.402		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.16	0.206		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.316		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.72	0.305		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.76	0.135		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.87	0.154					
RIGHT CAUDA EPID	0.3259	0.058					
LEFT CAUDA EPID	0.3970	0.070					
THYMUS	0.2839	0.050					
ADRENAL GLANDS	0.0913	0.016					
PITUITARY	0.0165	0.003					
FINAL BODY WT(G)	564.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74601 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.90	0.392		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.01	3.095		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.95	0.608		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.66	0.136		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.20	0.454		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.83	0.171		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.62	0.334		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.66	0.342		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.130		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.64	0.132					
RIGHT CAUDA EPID	0.2194	0.045					
LEFT CAUDA EPID	0.3138	0.065					
THYMUS	0.1684	0.035					
ADRENAL GLANDS	0.0494	0.010					
PITUITARY	0.0140	0.003					
FINAL BODY WT(G)	485.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74604 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.12	0.385		BILATERAL					
LIVER	19.26	3.502	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
KIDNEYS	4.29	0.780		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.82	0.149		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	2.27	0.413	NO SIGNIFICANT						
PROSTATE	1.26	0.229	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.95	0.355		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.91	0.347		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.80	0.145		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.73	0.133		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.3699	0.067		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3582	0.065		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2417	0.044		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0843	0.015		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0174	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	550.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74604 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74605 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, BRON	GROSS: ENLARGED					P
BRAIN	2.26	0.423	LYMPH NODE, BRON	MICRO: HYPERPLASIA, LYMPHOID					1
LIVER	18.72	3.506		CORRELATES TO GROSS ENLARGEMENT					
KIDNEYS	3.65	0.684		NO SIGNIFICANT					
SPLEEN	0.77	0.144	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
SEM VES/CG/FLUID	2.51	0.470		CECUM	COLON	DUODENUM	ESOPHAGUS		
PROSTATE	1.08	0.202		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT TESTIS	1.65	0.309		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT TESTIS	1.67	0.313		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT EPIDIDYMIS	0.64	0.120		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT EPIDIDYMIS	0.65	0.122		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
RIGHT CAUDA EPID	0.2708	0.051		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
LEFT CAUDA EPID	0.2979	0.056		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
THYMUS	0.2711	0.051		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0639	0.012							
PITUITARY	0.0177	0.003							
FINAL BODY WT(G)	534.								

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74609 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), WHITE				P
BRAIN	2.06	0.372		MULTIPLE, PINPOINT, LEFT LOBE				
LIVER	18.46	3.332	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR				2
KIDNEYS	4.16	0.751		MACROPHAGES, ALVEOLAR				1
SPLEEN	0.72	0.130		INFILTRATE, MONONUCLEAR, SUBPLEURAL				1
SEM VES/CG/FLUID	2.55	0.460		CORRELATES TO GROSS WHITE AREAS				
PROSTATE	1.08	0.195	NO SIGNIFICANT					
RIGHT TESTIS	1.93	0.348	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.90	0.343		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.75	0.135		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.78	0.141		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
RIGHT CAUDA EPID	0.2811	0.051		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
LEFT CAUDA EPID	0.3702	0.067		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
THYMUS	0.1182	0.021		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
ADRENAL GLANDS	0.0655	0.012		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
PITUITARY	0.0165	0.003		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
FINAL BODY WT(G)	554.			RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74612 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.01	0.324		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	20.88	3.368		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.82	0.616		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.80	0.129		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.29	0.369		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.20	0.194		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.69	0.273		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.75	0.282		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.111		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.119					
RIGHT CAUDA EPID	0.2601	0.042					
LEFT CAUDA EPID	0.2772	0.045					
THYMUS	0.2414	0.039					
ADRENAL GLANDS	0.0547	0.009					
PITUITARY	0.0158	0.003					
FINAL BODY WT(G)	620.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74613 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), DARK RED	P
BRAIN	2.09	0.337		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
LIVER	18.90	3.048	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
KIDNEYS	3.87	0.624		INFILTRATE, MONONUCLEAR, SUBPLEURAL	1
SPLEEN	0.76	0.123		HEMORRHAGE	2
SEM VES/CG/FLUID	1.61	0.260		VARIABLE SEVERITY; PERACUTE; CORRELATES TO GROSS RED AREAS	
PROSTATE	1.39	0.224	NO SIGNIFICANT		
RIGHT TESTIS	2.02	0.326	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
LEFT TESTIS	1.95	0.315		CECUM COLON DUODENUM ESOPHAGUS	
RIGHT EPIDIDYMIS	0.88	0.142		EYES/OPTIC N. HEART ILEUM JEJUNUM	
LEFT EPIDIDYMIS	0.82	0.132		KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND	
RIGHT CAUDA EPID	0.3132	0.051		NERVE, SCIATIC VAS DEFERENS PANCREAS PITUITARY	
LEFT CAUDA EPID	0.3515	0.057		PROSTATE RECTUM SPINAL CORD SAL. GLAND MAND	
THYMUS	0.2222	0.036		STOMACH SKELETAL MUSCLE SKIN SPLEEN	
ADRENAL GLANDS	0.0614	0.010		SEMINAL VESICLES THYROID GLANDS THYMUS TRACHEA	
PITUITARY	0.0163	0.003		URINARY BLADDER RIGHT TESTIS LEFT TESTIS LEFT EPIDIDYMIS	
FINAL BODY WT(G)	620.			RIGHT EPIDIDYMIS COAGULATING GL	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74621 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	TEETH	GROSS: MISSING				P
BRAIN	2.10	0.512		UPPER INCISOR, BILATERAL				
LIVER	13.11	3.198	NO SIGNIFICANT					
KIDNEYS	3.05	0.744	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.62	0.151		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.66	0.649		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	1.28	0.312		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.76	0.429		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.79	0.437		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.70	0.171		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT EPIDIDYMIS	0.72	0.176		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
RIGHT CAUDA EPID	0.2859	0.070		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
LEFT CAUDA EPID	0.3326	0.081		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
THYMUS	0.2008	0.049						
ADRENAL GLANDS	0.0550	0.013						
PITUITARY	0.0131	0.003						
FINAL BODY WT(G)	410.							

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74625 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.98	0.380		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.50	3.167		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.35	0.643		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.58	0.111		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.83	0.351		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.36	0.261		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.60	0.307		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.60	0.307		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.72	0.138		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.82	0.157					
RIGHT CAUDA EPID	0.3325	0.064					
LEFT CAUDA EPID	0.3904	0.075					
THYMUS	0.2455	0.047					
ADRENAL GLANDS	0.0528	0.010					
PITUITARY	0.0131	0.003					
FINAL BODY WT(G)	521.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74626 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.15	0.375		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	20.30	3.537		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.02	0.700		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	1.09	0.190		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.44	0.425		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.23	0.214		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.89	0.329		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.90	0.331		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.71	0.124		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.118					
RIGHT CAUDA EPID	0.3001	0.052					
LEFT CAUDA EPID	0.2915	0.051					
THYMUS	0.3601	0.063					
ADRENAL GLANDS	0.0621	0.011					
PITUITARY	0.0195	0.003					
FINAL BODY WT(G)	574.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74634 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.15	0.385		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.69	3.343		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.37	0.603		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.85	0.152		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.44	0.436		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.35	0.242		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	2.12	0.379		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.99	0.356		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.125		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.122					
RIGHT CAUDA EPID	0.3080	0.055					
LEFT CAUDA EPID	0.3380	0.060					
THYMUS	0.1889	0.034					
ADRENAL GLANDS	0.0530	0.009					
PITUITARY	0.0147	0.003					
FINAL BODY WT(G)	559.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74641 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.376		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.29	3.457		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.09	0.554		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.75	0.134		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.18	0.391		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.86	0.154		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.74	0.312		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.66	0.297		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.125		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.72	0.129					
RIGHT CAUDA EPID	0.2546	0.046					
LEFT CAUDA EPID	0.3251	0.058					
THYMUS	0.2402	0.043					
ADRENAL GLANDS	0.0577	0.010					
PITUITARY	0.0127	0.002					
FINAL BODY WT(G)	558.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74642 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.17	0.384		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.51	3.453		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.34	0.768		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.122		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.96	0.347		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.51	0.267		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.83	0.324		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.81	0.320		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.62	0.110		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.64	0.113					
RIGHT CAUDA EPID	0.2591	0.046					
LEFT CAUDA EPID	0.3079	0.054					
THYMUS	0.2383	0.042					
ADRENAL GLANDS	0.0601	0.011					
PITUITARY	0.0162	0.003					
FINAL BODY WT(G)	565.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74655 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.11	0.407		RIGHT					P
LIVER	15.43	2.973	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.61	0.696		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.79	0.152	PITUITARY	GROSS: PALE					P
SEM VES/CG/FLUID	2.71	0.522	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
PROSTATE	1.58	0.304		NO CORRELATE TO GROSS PALLOR					
RIGHT TESTIS	1.94	0.374	NO SIGNIFICANT						
LEFT TESTIS	1.88	0.362	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT EPIDIDYMIS	0.79	0.152		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT EPIDIDYMIS	0.61	0.118		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT CAUDA EPID	0.3413	0.066		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT CAUDA EPID	0.2240	0.043		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
THYMUS	0.2879	0.055		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
ADRENAL GLANDS	0.0666	0.013		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
PITUITARY	0.0183	0.004		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
FINAL BODY WT(G)	519.			URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:PITUITARY					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74662 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	2.13	0.427		INFLAMMATION, SUBACUTE				1
LIVER	16.16	3.238	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	3.09	0.619	SPLEEN	GROSS: CYST(S)				P
SPLEEN	0.79	0.158		THREE, 1 MM TO 2 MM IN DIAMETER				
SEM VES/CG/FLUID	2.38	0.477	SPLEEN	MICRO: CYST				2
PROSTATE	1.04	0.208		ON CAPSULAR SURFACE; CORRELATES WITH GROSS OBSERVATION OF				
RIGHT TESTIS	1.85	0.371		CYSTS				
LEFT TESTIS	1.82	0.365	THYMUS	MICRO: HEMORRHAGE				1
RIGHT EPIDIDYMIS	0.77	0.154	NO SIGNIFICANT					
LEFT EPIDIDYMIS	0.75	0.150	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT CAUDA EPID	0.3188	0.064		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT CAUDA EPID	0.3690	0.074		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2615	0.052		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
ADRENAL GLANDS	0.0530	0.011		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
PITUITARY	0.0153	0.003		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
FINAL BODY WT(G)	499.			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				PROSTATE	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74666 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	RIGHT TESTIS	GROSS: SMALL					
BRAIN	2.11	0.433	RIGHT TESTIS	GROSS: SOFT					P
LIVER	13.48	2.768	RIGHT TESTIS	MICRO: GIANT CELL					1
KIDNEYS	3.01	0.618		CORRELATES TO GROSS SMALL AND SOFT					
SPLEEN	0.63	0.129	LEFT TESTIS	GROSS: SMALL					P
SEM VES/CG/FLUID	1.80	0.370	LEFT TESTIS	GROSS: SOFT					P
PROSTATE	1.17	0.240	LEFT EPIDIDYMIS	GROSS: SMALL					P
RIGHT TESTIS	1.07	0.220	RIGHT EPIDIDYMIS	GROSS: SMALL					P
LEFT TESTIS	1.09	0.224	RIGHT EPIDIDYMIS	MICRO: CELLULAR DEBRIS					1
RIGHT EPIDIDYMIS	0.46	0.094		INCLUDES INTRATUBULAR GIANT CELLS; CORRELATES WITH GROSS					
LEFT EPIDIDYMIS	0.46	0.094		SMALL SIZE					
RIGHT CAUDA EPID	0.1988	0.041	NO SIGNIFICANT						
LEFT CAUDA EPID	0.2059	0.042	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
THYMUS	0.1799	0.037		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0587	0.012		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0137	0.003		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
FINAL BODY WT(G)	487.			MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74667 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.25	0.357		BILATERAL					P
LIVER	21.80	3.455	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.92	0.621		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.92	0.146		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	2.11	0.334	LUNGS	GROSS: AREA(S), DARK RED					P
PROSTATE	1.51	0.239		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES					
RIGHT TESTIS	2.06	0.326	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR					1
LEFT TESTIS	2.01	0.319		MACROPHAGES, ALVEOLAR					1
RIGHT EPIDIDYMIS	0.77	0.122		INFILTRATE, MONONUCLEAR, SUBPLEURAL					1
LEFT EPIDIDYMIS	0.77	0.122		NO CORRELATE TO GROSS RED AREAS					
RIGHT CAUDA EPID	0.3549	0.056	NO SIGNIFICANT						
LEFT CAUDA EPID	0.3649	0.058	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
THYMUS	0.1827	0.029		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0589	0.009		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0211	0.003		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND		
FINAL BODY WT(G)	631.			NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74671 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.442		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.53	3.072		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.46	0.732		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.146		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.18	0.461		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.01	0.214		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.73	0.366		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.75	0.370		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.156		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.61	0.129					
RIGHT CAUDA EPID	0.2905	0.061					
LEFT CAUDA EPID	0.2740	0.058					
THYMUS	0.2198	0.046					
ADRENAL GLANDS	0.0712	0.015					
PITUITARY	0.0170	0.004					
FINAL BODY WT(G)	473.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74673 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.25	0.383		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.06	3.071		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.29	0.730		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.79	0.134		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.61	0.444		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.57	0.267		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.79	0.304		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.301		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.126		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.121					
RIGHT CAUDA EPID	0.3448	0.059					
LEFT CAUDA EPID	0.2621	0.045					
THYMUS	0.1626	0.028					
ADRENAL GLANDS	0.0734	0.012					
PITUITARY	0.0189	0.003					
FINAL BODY WT(G)	588.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74676 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.18	0.375		BILATERAL					P
LIVER	20.37	3.500	LYMPH NODE, MAND	GROSS: ENLARGED					P
KIDNEYS	3.58	0.615		BILATERAL					
SPLEEN	0.82	0.141	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
SEM VES/CG/FLUID	2.35	0.404		CORRELATES TO GROSS RED DISCOLORATION					
PROSTATE	1.40	0.241		HYPERPLASIA, LYMPHOID					1
RIGHT TESTIS	2.15	0.369		CORRELATES TO GROSS ENLARGEMENT					
LEFT TESTIS	2.20	0.378	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.76	0.131	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.76	0.131		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2806	0.048		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.3714	0.064		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2271	0.039		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0541	0.009		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0146	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
FINAL BODY WT(G)	582.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74685 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.13	0.404		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.12	3.628		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.29	0.814		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.148		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.37	0.450		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.30	0.247		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.81	0.343		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.82	0.345		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.83	0.157		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.135					
RIGHT CAUDA EPID	0.3820	0.072					
LEFT CAUDA EPID	0.3220	0.061					
THYMUS	0.2150	0.041					
ADRENAL GLANDS	0.0688	0.013					
PITUITARY	0.0129	0.002					
FINAL BODY WT(G)	527.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74689 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.00	0.404		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.81	3.194		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.82	0.772		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.67	0.135		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.51	0.507		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.40	0.283		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.70	0.343		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.71	0.345		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.139		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.63	0.127					
RIGHT CAUDA EPID	0.3334	0.067					
LEFT CAUDA EPID	0.3052	0.062					
THYMUS	0.1968	0.040					
ADRENAL GLANDS	0.0537	0.011					
PITUITARY	0.0140	0.003					
FINAL BODY WT(G)	495.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74690 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.26	0.436		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.49	3.569		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.41	0.658		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.91	0.176		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.39	0.461		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.12	0.216		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
LEFT TESTIS	1.77	0.342		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
RIGHT EPIDIDYMIS	0.77	0.149		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
LEFT EPIDIDYMIS	0.70	0.135		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
RIGHT CAUDA EPID	0.2841	0.055					
LEFT CAUDA EPID	0.2928	0.057					
THYMUS	0.2253	0.043					
ADRENAL GLANDS	0.0666	0.013					
PITUITARY	0.0129	0.002					
FINAL BODY WT(G)	518.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74704 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.05	0.439		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.71	3.792		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.79	0.812		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.73	0.156		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.94	0.415		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.28	0.274		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.77	0.379		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.76	0.377		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.148		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.76	0.163					
RIGHT CAUDA EPID	0.3175	0.068					
LEFT CAUDA EPID	0.3237	0.069					
THYMUS	0.1398	0.030					
ADRENAL GLANDS	0.0681	0.015					
PITUITARY	0.0124	0.003					
FINAL BODY WT(G)	467.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74708 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.02	0.404		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.57	3.114		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.46	0.692		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.73	0.146		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.44	0.488		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.40	0.280		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.83	0.366		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.91	0.382		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.76	0.152		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.148					
RIGHT CAUDA EPID	0.2976	0.060					
LEFT CAUDA EPID	0.3383	0.068					
THYMUS	0.2141	0.043					
ADRENAL GLANDS	0.0551	0.011					
PITUITARY	0.0129	0.003					
FINAL BODY WT(G)	500.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74709 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	1.97	0.390		BILATERAL					P
LIVER	15.94	3.156	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.24	0.642		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.75	0.149		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	1.98	0.392		PROMINENT GERMINAL CENTERS					
PROSTATE	1.41	0.279	LUNGS	GROSS: AREA(S), WHITE					P
RIGHT TESTIS	2.04	0.404		SEVERAL, PINPOINT, ALL LOBES					
LEFT TESTIS	2.20	0.436	LUNGS	MICRO: MACROPHAGES, ALVEOLAR					1
RIGHT EPIDIDYMIS	0.77	0.152		INFILTRATE, MONONUCLEAR, PERIVASCULAR					1
LEFT EPIDIDYMIS	0.84	0.166		CORRELATES TO GROSS WHITE AREAS					
RIGHT CAUDA EPID	0.3362	0.067	NO SIGNIFICANT						
LEFT CAUDA EPID	0.4105	0.081	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
THYMUS	0.2125	0.042		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0730	0.014		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0155	0.003		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND		
FINAL BODY WT(G)	505.			NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74712 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.06	0.380		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.59	3.061		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.38	0.624		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.127		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.11	0.389		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.32	0.244		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.66	0.306		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.71	0.315		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.64	0.118		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.62	0.114					
RIGHT CAUDA EPID	0.3103	0.057					
LEFT CAUDA EPID	0.3357	0.062					
THYMUS	0.2892	0.053					
ADRENAL GLANDS	0.0439	0.008					
PITUITARY	0.0148	0.003					
FINAL BODY WT(G)	542.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74715 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.07	0.414		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.25	3.050		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.43	0.686		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.148		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.62	0.324		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.00	0.200		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.43	0.286		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.42	0.284		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.126		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.67	0.134					
RIGHT CAUDA EPID	0.2938	0.059					
LEFT CAUDA EPID	0.3360	0.067					
THYMUS	0.1688	0.034					
ADRENAL GLANDS	0.0629	0.013					
PITUITARY	0.0167	0.003					
FINAL BODY WT(G)	500.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74722 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.04	0.399		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.11	3.153		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.62	0.708		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.61	0.119		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.01	0.393		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.48	0.290		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.72	0.337		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.74	0.341		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.72	0.141		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.84	0.164					
RIGHT CAUDA EPID	0.3417	0.067					
LEFT CAUDA EPID	0.3870	0.076					
THYMUS	0.1608	0.031					
ADRENAL GLANDS	0.0684	0.013					
PITUITARY	0.0131	0.003					
FINAL BODY WT(G)	511.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74729 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.14	0.393		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.21	3.531		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.88	0.713		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.91	0.167		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.57	0.289		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.10	0.202		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.77	0.325		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.325		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.136		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.82	0.151					
RIGHT CAUDA EPID	0.2854	0.052					
LEFT CAUDA EPID	0.3737	0.069					
THYMUS	0.3917	0.072					
ADRENAL GLANDS	0.0817	0.015					
PITUITARY	0.0111	0.002					
FINAL BODY WT(G)	544.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74733 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.23	0.455	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	16.25	3.316	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.67	0.749	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.73	0.149	NO SIGNIFICANT CHANGES OBSERVED						
SEM VES/CG/FLUID	2.38	0.486	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
PROSTATE	1.14	0.233	CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT TESTIS	1.82	0.371	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT TESTIS	1.84	0.376	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
RIGHT EPIDIDYMIS	0.70	0.143	MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
LEFT EPIDIDYMIS	0.70	0.143	PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
RIGHT CAUDA EPID	0.3158	0.064	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
LEFT CAUDA EPID	0.3285	0.067	SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
THYMUS	0.1390	0.028	TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
ADRENAL GLANDS	0.0682	0.014	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
PITUITARY	0.0187	0.004	MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
FINAL BODY WT(G)	490.		SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS			
			COAGULATING GL						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74606 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.13	0.365		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.31	3.307		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.73	0.639		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.134		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.05	0.351		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.06	0.182		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.72	0.295		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.80	0.308		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.65	0.111		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.125					
RIGHT CAUDA EPID	0.2504	0.043					
LEFT CAUDA EPID	0.3042	0.052					
THYMUS	0.2057	0.035					
ADRENAL GLANDS	0.0636	0.011					
PITUITARY	0.0138	0.002					
FINAL BODY WT(G)	584.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74607 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), DARK RED	P
BRAIN	2.06	0.395		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
LIVER	16.76	3.217	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	2
KIDNEYS	3.54	0.679		MACROPHAGES, ALVEOLAR	1
SPLEEN	0.75	0.144		HEMORRHAGE	2
SEM VES/CG/FLUID	2.33	0.447		VARIABLE SEVERITY; PERACUTE; CORRELATES TO GROSS RED AREAS	
PROSTATE	1.19	0.228	NO SIGNIFICANT		
RIGHT TESTIS	1.73	0.332	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
LEFT TESTIS	1.86	0.357		CECUM COLON DUODENUM ESOPHAGUS	
RIGHT EPIDIDYMIS	0.80	0.154		EYES/OPTIC N. HEART ILEUM JEJUNUM	
LEFT EPIDIDYMIS	0.75	0.144		KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND	
RIGHT CAUDA EPID	0.2552	0.049		NERVE, SCIATIC VAS DEFERENS PANCREAS PITUITARY	
LEFT CAUDA EPID	0.3303	0.063		PROSTATE RECTUM SPINAL CORD SAL. GLAND MAND	
THYMUS	0.1930	0.037		STOMACH SKELETAL MUSCLE SKIN SPLEEN	
ADRENAL GLANDS	0.0541	0.010		SEMINAL VESICLES THYROID GLANDS THYMUS TRACHEA	
PITUITARY	0.0185	0.004		URINARY BLADDER RIGHT TESTIS LEFT TESTIS LEFT EPIDIDYMIS	
FINAL BODY WT(G)	521.			RIGHT EPIDIDYMIS COAGULATING GL	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74608 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.05	0.417		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.48	3.756		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.81	0.774		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.82	0.167		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.49	0.506		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.08	0.220		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.79	0.364		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.74	0.354		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.152		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.59	0.120					
RIGHT CAUDA EPID	0.2787	0.057					
LEFT CAUDA EPID	0.2847	0.058					
THYMUS	0.2143	0.044					
ADRENAL GLANDS	0.0661	0.013					
PITUITARY	0.0125	0.003					
FINAL BODY WT(G)	492.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74611 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.20	0.425		BILATERAL					P
LIVER	19.19	3.705	LYMPH NODE, MAND	MICRO: PLASMACYTOSIS					2
KIDNEYS	3.22	0.622		HYPERPLASIA, LYMPHOID					1
SPLEEN	0.87	0.168		HEMORRHAGE					2
SEM VES/CG/FLUID	2.24	0.432		CORRELATES TO GROSS RED DISCOLORATION					
PROSTATE	1.28	0.247	NO SIGNIFICANT						
RIGHT TESTIS	1.87	0.361	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.87	0.361		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.75	0.145		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.80	0.154		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.2991	0.058		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3252	0.063		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.2202	0.043		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0743	0.014		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0130	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	518.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74615 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.08	0.381		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.69	3.606		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.27	0.599		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.85	0.156		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.59	0.474		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.36	0.249		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.64	0.300		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.64	0.300		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.67	0.123		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.69	0.126					
RIGHT CAUDA EPID	0.2412	0.044					
LEFT CAUDA EPID	0.2950	0.054					
THYMUS	0.1929	0.035					
ADRENAL GLANDS	0.0687	0.013					
PITUITARY	0.0110	0.002					
FINAL BODY WT(G)	546.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74617 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.25	0.459		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.93	3.251		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.73	0.761		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.141		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.12	0.433		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.28	0.261		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.71	0.349		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.361		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.81	0.165		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.153					
RIGHT CAUDA EPID	0.2729	0.056					
LEFT CAUDA EPID	0.3106	0.063					
THYMUS	0.1643	0.034					
ADRENAL GLANDS	0.0680	0.014					
PITUITARY	0.0169	0.003					
FINAL BODY WT(G)	490.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74618 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.24	0.429		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.95	3.439		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.46	0.663		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.68	0.130		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.25	0.431		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.18	0.226		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.68	0.322		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.79	0.343		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.144		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.76	0.146					
RIGHT CAUDA EPID	0.3342	0.064					
LEFT CAUDA EPID	0.3384	0.065					
THYMUS	0.2426	0.046					
ADRENAL GLANDS	0.0564	0.011					
PITUITARY	0.0232	0.004					
FINAL BODY WT(G)	522.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74619 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.04	0.429	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	16.42	3.450	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					2
KIDNEYS	3.64	0.765	SKIN	GROSS: HAIR LOSS					P
SPLEEN	0.70	0.147		FORELIMB, BILATERAL					
SEM VES/CG/FLUID	2.07	0.435	SKIN	MICRO: ATROPHY, HAIR FOLLICLE					2
PROSTATE	1.05	0.221		FOCAL; CORRELATES TO GROSS HAIR LOSS					
RIGHT TESTIS	1.64	0.345	THYMUS	MICRO: HEMORRHAGE					1
LEFT TESTIS	1.68	0.353	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.63	0.132	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.69	0.145		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2741	0.058		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.3291	0.069		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2236	0.047		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0664	0.014		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0137	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN		
FINAL BODY WT(G)	476.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74622 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.394		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.04	3.021		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.09	0.770		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.130		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.60	0.490		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.65	0.311		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.80	0.339		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.333		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.68	0.128		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.69	0.130					
RIGHT CAUDA EPID	0.3111	0.059					
LEFT CAUDA EPID	0.3287	0.062					
THYMUS	0.1836	0.035					
ADRENAL GLANDS	0.0690	0.013					
PITUITARY	0.0169	0.003					
FINAL BODY WT(G)	531.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74638 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.23	0.433		BILATERAL					
LIVER	16.69	3.241	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.96	0.769		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.79	0.153		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	3.23	0.627	NO SIGNIFICANT						
PROSTATE	1.52	0.295	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.98	0.384		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.89	0.367		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.87	0.169		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.82	0.159		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.3835	0.074		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3972	0.077		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2207	0.043		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0760	0.015		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0188	0.004		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	515.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74638 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74639 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.21	0.390		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.06	3.362		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.09	0.721		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.131		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.38	0.420		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.56	0.275		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	2.00	0.353		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.00	0.353		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.92	0.162		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.83	0.146					
RIGHT CAUDA EPID	0.3886	0.069					
LEFT CAUDA EPID	0.4046	0.071					
THYMUS	0.1942	0.034					
ADRENAL GLANDS	0.0727	0.013					
PITUITARY	0.0152	0.003					
FINAL BODY WT(G)	567.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74650 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.414		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.75	3.178		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.98	0.755		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.77	0.146		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.86	0.543		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.39	0.264		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.93	0.366		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.92	0.364		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.78	0.148		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.77	0.146					
RIGHT CAUDA EPID	0.3781	0.072					
LEFT CAUDA EPID	0.4042	0.077					
THYMUS	0.2230	0.042					
ADRENAL GLANDS	0.0599	0.011					
PITUITARY	0.0148	0.003					
FINAL BODY WT(G)	527.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74661 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.07	0.410		BILATERAL					
LIVER	17.15	3.396	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
KIDNEYS	3.58	0.709		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.63	0.125		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	2.61	0.517	NO SIGNIFICANT						
PROSTATE	1.03	0.204	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.83	0.362		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.81	0.358		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.78	0.154		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.70	0.139		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.3144	0.062		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.2833	0.056		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1834	0.036		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0736	0.015		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0152	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	505.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74661 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74668 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.15	0.383		BILATERAL					
LIVER	18.19	3.242	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.40	0.606		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.74	0.132		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	1.69	0.301	NO SIGNIFICANT						
PROSTATE	1.06	0.189	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.67	0.298		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.73	0.308		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.69	0.123		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.70	0.125		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.3079	0.055		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3399	0.061		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2333	0.042		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0618	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0134	0.002		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	561.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74668 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74670 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.19	0.428		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.67	3.451		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.91	0.764		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.158		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.45	0.479		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.58	0.309		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.92	0.375		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.92	0.375		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.123		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.145					
RIGHT CAUDA EPID	0.2714	0.053					
LEFT CAUDA EPID	0.2708	0.053					
THYMUS	0.1446	0.028					
ADRENAL GLANDS	0.0789	0.015					
PITUITARY	0.0136	0.003					
FINAL BODY WT(G)	512.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74674 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.08	0.417	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
LIVER	16.23	3.253	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	3.40	0.681		BILATERAL					
SPLEEN	0.76	0.152	LYMPH NODE, MAND	GROSS: ENLARGED					P
SEM VES/CG/FLUID	2.26	0.453		BILATERAL					
PROSTATE	1.55	0.311	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
RIGHT TESTIS	1.84	0.369		CORRELATES TO GROSS RED DISCOLORATION					
LEFT TESTIS	1.88	0.377		HYPERPLASIA, LYMPHOID					1
RIGHT EPIDIDYMIS	0.70	0.140		CORRELATES TO GROSS ENLARGEMENT					
LEFT EPIDIDYMIS	0.72	0.144	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
RIGHT CAUDA EPID	0.3461	0.069	THYMUS	MICRO: HEMORRHAGE					1
LEFT CAUDA EPID	0.3336	0.067	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
THYMUS	0.2025	0.041		ONE COAGULATING GLAND EXAMINED; OTHER NOT IN PLANE; RECUT					
ADRENAL GLANDS	0.0670	0.013		EVALUATED					
PITUITARY	0.0161	0.003	TEETH	GROSS: MISSING					P
FINAL BODY WT(G)	499.			UPPER INCISOR, RIGHT					
			NO SIGNIFICANT						
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
				CECUM	COLON	DUODENUM	ESOPHAGUS		
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74674 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
GRADE

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MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN PITUITARY  
PROSTATE SPLEEN SEMINAL VESICLES RIGHT TESTIS  
RIGHT EPIDIDYMIS COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74675 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.04	0.418		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	13.44	2.754		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.22	0.660		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.71	0.145		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.06	0.422		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.26	0.258		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.73	0.355		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.67	0.342		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.152		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.152					
RIGHT CAUDA EPID	0.2843	0.058					
LEFT CAUDA EPID	0.3350	0.069					
THYMUS	0.1620	0.033					
ADRENAL GLANDS	0.0524	0.011					
PITUITARY	0.0129	0.003					
FINAL BODY WT(G)	488.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74679 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.05	0.447		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	13.56	2.954		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.38	0.736		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.48	0.105		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.41	0.525		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.32	0.288		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.71	0.373		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.73	0.377		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.72	0.157		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.155					
RIGHT CAUDA EPID	0.2698	0.059					
LEFT CAUDA EPID	0.3383	0.074					
THYMUS	0.1337	0.029					
ADRENAL GLANDS	0.0547	0.012					
PITUITARY	0.0127	0.003					
FINAL BODY WT(G)	459.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74683 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	SKIN	GROSS: MATTING, RED				P
BRAIN	2.05	0.356		OCULAR, LEFT				
LIVER	19.29	3.349	NO SIGNIFICANT					
KIDNEYS	3.84	0.667	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.82	0.142		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.36	0.410		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	1.33	0.231		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.90	0.330		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.94	0.337		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.73	0.127		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN	
LEFT EPIDIDYMIS	0.75	0.130		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
RIGHT CAUDA EPID	0.3157	0.055		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
LEFT CAUDA EPID	0.3062	0.053		RIGHT EPIDIDYMIS	COAGULATING GL			
THYMUS	0.3102	0.054						
ADRENAL GLANDS	0.0663	0.012						
PITUITARY	0.0125	0.002						
FINAL BODY WT(G)	576.							

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74684 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	2.11	0.425	CHANGES OBSERVED	AORTA	STERNEBRAE	BRAIN	
LIVER	14.79	2.976		CECUM	DUODENUM	ESOPHAGUS	
KIDNEYS	3.32	0.668		EYES/OPTIC N.	HEART	JEJUNUM	
SPLEEN	0.81	0.163		KIDNEYS	LIVER	LUNGS	
SEM VES/CG/FLUID	2.05	0.412		MAMMARY GLAND	NERVE, SCIATIC	PANCREAS	
PROSTATE	1.55	0.312		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
RIGHT TESTIS	1.80	0.362		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
LEFT TESTIS	1.84	0.370		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
RIGHT EPIDIDYMIS	0.73	0.147		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
LEFT EPIDIDYMIS	0.75	0.151		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
RIGHT CAUDA EPID	0.2797	0.056					
LEFT CAUDA EPID	0.3550	0.071					
THYMUS	0.2164	0.044					
ADRENAL GLANDS	0.0587	0.012					
PITUITARY	0.0136	0.003					
FINAL BODY WT(G)	497.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74691 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED						
BRAIN	2.18	0.450		BILATERAL						P
LIVER	16.14	3.335	LYMPH NODE, MAND	MICRO: HEMORRHAGE						3
KIDNEYS	3.09	0.638		CORRELATES TO GROSS RED DISCOLORATION						
SPLEEN	0.51	0.105		HYPERPLASIA, LYMPHOID						1
SEM VES/CG/FLUID	1.95	0.403	LYMPH NODE, MED	GROSS: ENLARGED						P
PROSTATE	1.53	0.316	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID						1
RIGHT TESTIS	1.66	0.343		CORRELATES TO GROSS ENLARGEMENT						
LEFT TESTIS	1.69	0.349	NO SIGNIFICANT							
RIGHT EPIDIDYMIS	0.68	0.140	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT EPIDIDYMIS	0.64	0.132		CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT CAUDA EPID	0.3091	0.064		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT CAUDA EPID	0.2742	0.057		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
THYMUS	0.2215	0.046		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
ADRENAL GLANDS	0.0531	0.011		PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
PITUITARY	0.0154	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
FINAL BODY WT(G)	484.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74693 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.							
BRAIN	2.01	0.345	KIDNEYS	GROSS: AREA(S), DEPRESSED					P
LIVER	20.71	3.558	KIDNEYS	FEW, LESS THAN 1 MM IN DIAMETER, IN CORTEX, RIGHT					
KIDNEYS	3.94	0.677		MICRO: INFLAMMATION, SUBACUTE					1
SPLEEN	0.88	0.151		UNDERLIES DEPRESSED AREAS; CORRELATES TO GROSS DEPRESSED					
SEM VES/CG/FLUID	2.15	0.369		AREAS					
PROSTATE	1.72	0.296	TEETH	GROSS: BROKEN					1
RIGHT TESTIS	1.82	0.313		UPPER INCISOR, BILATERAL					P
LEFT TESTIS	1.99	0.342	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.63	0.108	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.65	0.112		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.3080	0.053		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2706	0.046		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
THYMUS	0.1363	0.023		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
ADRENAL GLANDS	0.0612	0.011		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
PITUITARY	0.0151	0.003		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
FINAL BODY WT(G)	582.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74699 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.								
BRAIN	2.17	0.328	KIDNEYS	GROSS: AREA(S), DEPRESSED						P
LIVER	22.78	3.441	KIDNEYS	MICRO: DILATATION, TUBULAR	ONE, LESS THAN 1 MM IN DIAMETER, IN CORTEX, RIGHT					1
KIDNEYS	4.27	0.645			NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SPLEEN	0.87	0.131			INFLAMMATION, SUBACUTE					1
SEM VES/CG/FLUID	2.24	0.338	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED						P
PROSTATE	0.97	0.147			BILATERAL					
RIGHT TESTIS	1.86	0.281	LYMPH NODE, MAND	MICRO: HEMORRHAGE						3
LEFT TESTIS	1.91	0.289			CORRELATES TO GROSS RED DISCOLORATION					
RIGHT EPIDIDYMIS	0.81	0.122			HYPERPLASIA, LYMPHOID					1
LEFT EPIDIDYMIS	0.76	0.115	NO SIGNIFICANT							
RIGHT CAUDA EPID	0.3785	0.057	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT CAUDA EPID	0.3827	0.058		CECUM	COLON	DUODENUM	ESOPHAGUS			
THYMUS	0.3196	0.048		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
ADRENAL GLANDS	0.0839	0.013		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND			
PITUITARY	0.0162	0.002		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY			
FINAL BODY WT(G)	662.			PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND			
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN			
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA			
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS			
				RIGHT EPIDIDYMIS	COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74706 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	SKIN	GROSS: MATTING, RED					
BRAIN	2.17	0.373		OCULAR, LEFT					P
LIVER	19.01	3.272	RIGHT TESTIS	GROSS: SMALL					P
KIDNEYS	3.59	0.618	RIGHT TESTIS	GROSS: SOFT					P
SPLEEN	0.77	0.133	RIGHT TESTIS	MICRO: DEGENERATION, SEMINIFEROUS TUBULES					4
SEM VES/CG/FLUID	2.45	0.422		CORRELATES TO GROSS SMALL AND SOFT					
PROSTATE	1.15	0.198	NO SIGNIFICANT						
RIGHT TESTIS	0.54	0.093	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.92	0.330		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.49	0.084		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.78	0.134		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.1430	0.025		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.2876	0.050		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.3138	0.054		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN		
ADRENAL GLANDS	0.0580	0.010		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
PITUITARY	0.0144	0.002		URINARY BLADDER	LEFT TESTIS	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS		
FINAL BODY WT(G)	581.			COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74710 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: ENLARGED					
BRAIN	2.12	0.436		BILATERAL					P
LIVER	15.90	3.272	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
KIDNEYS	3.56	0.733		HYPERPLASIA, LYMPHOID					1
SPLEEN	0.85	0.175		CORRELATES TO GROSS ENLARGEMENT					
SEM VES/CG/FLUID	2.08	0.428		PLASMACYTOSIS					2
PROSTATE	1.19	0.245	NO SIGNIFICANT						
RIGHT TESTIS	1.77	0.364	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.79	0.368		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.71	0.146		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.66	0.136		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.3093	0.064		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.2916	0.060		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.2108	0.043		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0519	0.011		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0091	0.002		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	486.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74717 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.95	0.430		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.05	3.315		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.26	0.718		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.66	0.145		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.22	0.489		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.19	0.262		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.392		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.79	0.394		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.139		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.150					
RIGHT CAUDA EPID	0.3114	0.069					
LEFT CAUDA EPID	0.3047	0.067					
THYMUS	0.1941	0.043					
ADRENAL GLANDS	0.0620	0.014					
PITUITARY	0.0151	0.003					
FINAL BODY WT(G)	454.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74719 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.385		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.26	3.344		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.37	0.800		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.73	0.134		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.52	0.462		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.56	0.286		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.60	0.293		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.61	0.295		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.136		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.64	0.117					
RIGHT CAUDA EPID	0.2794	0.051					
LEFT CAUDA EPID	0.2830	0.052					
THYMUS	0.1750	0.032					
ADRENAL GLANDS	0.0544	0.010					
PITUITARY	0.0168	0.003					
FINAL BODY WT(G)	546.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74727 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT				
BRAIN	2.25	0.407	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
LIVER	19.37	3.503		CECUM	COLON	DUODENUM	ESOPHAGUS
KIDNEYS	3.64	0.658		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
SPLEEN	0.85	0.154		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SEM VES/CG/FLUID	2.59	0.468		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
PROSTATE	1.60	0.289		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
RIGHT TESTIS	1.83	0.331		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
LEFT TESTIS	1.76	0.318		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
RIGHT EPIDIDYMIS	0.59	0.107		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
LEFT EPIDIDYMIS	0.51	0.092		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
RIGHT CAUDA EPID	0.2137	0.039					
LEFT CAUDA EPID	0.1730	0.031					
THYMUS	0.2837	0.051					
ADRENAL GLANDS	0.0668	0.012					
PITUITARY	0.0176	0.003					
FINAL BODY WT(G)	553.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74734 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ILEUM	GROSS: DIVERTICULUM					
BRAIN	2.14	0.390		ONE, 6 X 3 X 3 MM					P
LIVER	17.04	3.104	ILEUM	MICRO: DIVERTICULUM					P
KIDNEYS	3.46	0.630		CORRELATES TO GROSS OBSERVATION OF DIVERTICULUM					
SPLEEN	0.61	0.111		HYPERPLASIA, LYMPHOID					2
SEM VES/CG/FLUID	2.66	0.485	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
PROSTATE	1.13	0.206		BILATERAL					
RIGHT TESTIS	1.83	0.333	LYMPH NODE, MAND	MICRO: HEMORRHAGE					4
LEFT TESTIS	1.85	0.337		CORRELATES TO GROSS RED DISCOLORATION					
RIGHT EPIDIDYMIS	0.73	0.133	NO SIGNIFICANT						
LEFT EPIDIDYMIS	0.75	0.137	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT CAUDA EPID	0.2616	0.048		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT CAUDA EPID	0.2987	0.054		EYES/OPTIC N.	HEART	JEJUNUM	KIDNEYS		
THYMUS	0.2433	0.044		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
ADRENAL GLANDS	0.0727	0.013		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
PITUITARY	0.0149	0.003		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
FINAL BODY WT(G)	549.			STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74735 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

ORGAN WEIGHT	ABS. (G)	REL.	NO SIGNIFICANT	GROSS:			
BRAIN	2.05	0.408	CHANGES OBSERVED	ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
LIVER	18.15	3.616		CECUM	COLON	DUODENUM	ESOPHAGUS
KIDNEYS	3.71	0.739		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
SPLEEN	0.72	0.143		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SEM VES/CG/FLUID	2.47	0.492		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
PROSTATE	1.90	0.378		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
RIGHT TESTIS	1.75	0.349		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
LEFT TESTIS	1.73	0.345		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
RIGHT EPIDIDYMIS	0.74	0.147		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
LEFT EPIDIDYMIS	0.71	0.141		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
RIGHT CAUDA EPID	0.3187	0.063					
LEFT CAUDA EPID	0.3241	0.065					
THYMUS	0.2944	0.059					
ADRENAL GLANDS	0.0707	0.014					
PITUITARY	0.0171	0.003					
FINAL BODY WT(G)	502.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74624 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: MINERALIZATION, TUBULAR				
BRAIN	1.92	0.408		BASOPHILIC TUBULES				1
LIVER	13.28	2.820		INFLAMMATION, SUBACUTE				1
KIDNEYS	3.09	0.656	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.64	0.136	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	2.48	0.527	NO SIGNIFICANT					
PROSTATE	1.04	0.221	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.76	0.374		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.79	0.380		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.66	0.140		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.70	0.149		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.2522	0.054		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.2886	0.061		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.2051	0.044		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0520	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0097	0.002		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	471.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74628 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.16	0.451	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	14.67	3.063	THYMUS	MICRO: HEMORRHAGE					1
KIDNEYS	3.15	0.658	NO SIGNIFICANT						1
SPLEEN	0.75	0.157	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
SEM VES/CG/FLUID	2.47	0.516		CECUM	COLON	DUODENUM	ESOPHAGUS		
PROSTATE	1.25	0.261		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT TESTIS	1.90	0.397		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT TESTIS	1.91	0.399		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT EPIDIDYMIS	0.46	0.096		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT EPIDIDYMIS	0.63	0.132		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
RIGHT CAUDA EPID	0.2376	0.050		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
LEFT CAUDA EPID	0.2350	0.049		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
THYMUS	0.2022	0.042		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0904	0.019		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
PITUITARY	0.0136	0.003		PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS		
FINAL BODY WT(G)	479.			RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74629 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.00	0.410		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.89	3.461		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.51	0.719		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.67	0.137		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.21	0.453		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.01	0.207		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.58	0.324		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.54	0.316		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.76	0.156		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.66	0.135					
RIGHT CAUDA EPID	0.2748	0.056					
LEFT CAUDA EPID	0.3191	0.065					
THYMUS	0.1640	0.034					
ADRENAL GLANDS	0.0621	0.013					
PITUITARY	0.0133	0.003					
FINAL BODY WT(G)	488.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74631 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.414		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.28	3.211		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.68	0.726		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.85	0.168		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.11	0.416		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.03	0.203		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.86	0.367		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.85	0.365		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.67	0.132		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.146					
RIGHT CAUDA EPID	0.3132	0.062					
LEFT CAUDA EPID	0.3675	0.072					
THYMUS	0.1807	0.036					
ADRENAL GLANDS	0.0690	0.014					
PITUITARY	0.0147	0.003					
FINAL BODY WT(G)	507.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74635 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED				
BRAIN	1.94	0.361		ONE, 1 MM IN DIAMETER, IN CORTEX, RIGHT				P
LIVER	18.42	3.424	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
KIDNEYS	3.65	0.678		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA				
SPLEEN	0.86	0.160	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SEM VES/CG/FLUID	2.10	0.390	NO SIGNIFICANT					
PROSTATE	1.35	0.251	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.85	0.344		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.83	0.340		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.65	0.121		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
LEFT EPIDIDYMIS	0.65	0.121		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
RIGHT CAUDA EPID	0.2891	0.054		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
LEFT CAUDA EPID	0.2862	0.053		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
THYMUS	0.1483	0.028		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
ADRENAL GLANDS	0.0697	0.013		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
PITUITARY	0.0150	0.003		RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	538.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				PITUITARY	PROSTATE	SPLEEN	SEMINAL VESICLES	
				THYMUS	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74640 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.11	0.408		BILATERAL					
LIVER	16.92	3.273	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.81	0.737		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.69	0.133		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	2.09	0.404	NO SIGNIFICANT						
PROSTATE	1.06	0.205	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.86	0.360		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.86	0.360		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.71	0.137		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.64	0.124		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2798	0.054		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.2650	0.051		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1727	0.033		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0534	0.010		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0146	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	517.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74640 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74643 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	ADRENAL GLANDS	GROSS: AREA(S), WHITE					P
BRAIN	2.15	0.385		MULTIPLE, PINPOINT, BILATERAL					
LIVER	22.29	3.995	ADRENAL CORTEX	MICRO: HYPERTROPHY					1
KIDNEYS	4.14	0.742		ZONA GLOMERULOSA; CORRELATES TO GROSS WHITE AREAS					
SPLEEN	0.97	0.174		VACUOLATION, CYTOPLASMIC					1
SEM VES/CG/FLUID	2.64	0.473		ZONA FASCICULATA					
PROSTATE	1.57	0.281	NO SIGNIFICANT						
RIGHT TESTIS	1.83	0.328	CHANGES OBSERVED	GROSS:AORTA	STERNEBRAE	BRAIN	CECUM		
LEFT TESTIS	1.93	0.346		COLON	DUODENUM	ESOPHAGUS	EYES/OPTIC N.		
RIGHT EPIDIDYMIS	0.66	0.118		HEART	ILEUM	JEJUNUM	KIDNEYS		
LEFT EPIDIDYMIS	0.73	0.131		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
RIGHT CAUDA EPID	0.3465	0.062		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
LEFT CAUDA EPID	0.3063	0.055		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
THYMUS	0.2460	0.044		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
ADRENAL GLANDS	0.0778	0.014		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
PITUITARY	0.0128	0.002		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
FINAL BODY WT(G)	558.			RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL MEDULLA					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74646 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: ENLARGED					P
BRAIN	2.36	0.389		BILATERAL					
LIVER	19.51	3.214	LYMPH NODE, MAND	MICRO: HYPERPLASIA, LYMPHOID					1
KIDNEYS	4.28	0.705		CORRELATES TO GROSS ENLARGEMENT					
SPLEEN	0.87	0.143		HEMORRHAGE					1
SEM VES/CG/FLUID	2.36	0.389	NO SIGNIFICANT						
PROSTATE	1.19	0.196	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.75	0.288		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.78	0.293		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.72	0.119		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.69	0.114		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2986	0.049		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3160	0.052		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1885	0.031		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0682	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0207	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	607.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74646 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74647 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.11	0.348		BASOPHILIC TUBULES					1
LIVER	20.37	3.361	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.97	0.655	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
SPLEEN	0.83	0.137	THYMUS	MICRO: HEMORRHAGE					1
SEM VES/CG/FLUID	2.51	0.414	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE					1
PROSTATE	1.32	0.218	NO SIGNIFICANT						
RIGHT TESTIS	1.96	0.323	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.91	0.315		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.79	0.130		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.67	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.3047	0.050		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3244	0.054		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.3548	0.059		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0493	0.008		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0165	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	606.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74649 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	2.24	0.413		BILATERAL					
LIVER	15.38	2.838	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
KIDNEYS	3.37	0.622		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.73	0.135		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	2.11	0.389	NO SIGNIFICANT						
PROSTATE	1.13	0.208	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.99	0.367		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.87	0.345		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.73	0.135		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.71	0.131		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2930	0.054		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3386	0.062		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1994	0.037		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0647	0.012		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0136	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	542.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74649 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74652 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.06	0.393	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
LIVER	17.75	3.387	THYMUS	MICRO: HEMORRHAGE				1
KIDNEYS	3.79	0.723	NO SIGNIFICANT					2
SPLEEN	0.76	0.145	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.11	0.403		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.22	0.233		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.90	0.363		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.90	0.363		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.66	0.126		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.75	0.143		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.2837	0.054		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.3575	0.068		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.3942	0.075		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0585	0.011		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
PITUITARY	0.0091	0.002		PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	
FINAL BODY WT(G)	524.			RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74653 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.17	0.421		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.59	3.416		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.32	0.645		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.157		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.72	0.334		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.93	0.181		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.99	0.386		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.09	0.406		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.77	0.150		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.80	0.155					
RIGHT CAUDA EPID	0.3150	0.061					
LEFT CAUDA EPID	0.3512	0.068					
THYMUS	0.1906	0.037					
ADRENAL GLANDS	0.0676	0.013					
PITUITARY	0.0164	0.003					
FINAL BODY WT(G)	515.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74658 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: HYPERTROPHY					
BRAIN	1.93	0.415		ZONA GLOMERULOSA					1
LIVER	13.07	2.811	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	2.59	0.557		BASOPHILIC TUBULES					1
SPLEEN	0.76	0.163	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SEM VES/CG/FLUID	1.63	0.351	PITUITARY	MICRO: CYST, PARS INTERMEDIA					1
PROSTATE	0.90	0.194		HYPERTROPHY, PARS DISTALIS					2
RIGHT TESTIS	1.71	0.368		FOCAL					
LEFT TESTIS	1.73	0.372	THYMUS	MICRO: HEMORRHAGE					1
RIGHT EPIDIDYMIS	0.70	0.151	NO SIGNIFICANT						
LEFT EPIDIDYMIS	0.64	0.138	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT CAUDA EPID	0.2515	0.054		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT CAUDA EPID	0.3107	0.067		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
THYMUS	0.2240	0.048		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
ADRENAL GLANDS	0.0563	0.012		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
PITUITARY	0.0152	0.003		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
FINAL BODY WT(G)	465.			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PROSTATE	SPLEEN		
				SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74659 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LYMPH NODE, BRON	GROSS: ENLARGED					P
BRAIN	2.00	0.398	LYMPH NODE, BRON	MICRO: HYPERPLASIA, LYMPHOID					1
LIVER	15.43	3.074		CORRELATES TO GROSS ENLARGEMENT					
KIDNEYS	3.21	0.639		NO SIGNIFICANT					
SPLEEN	0.73	0.145	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
SEM VES/CG/FLUID	2.02	0.402		CECUM	COLON	DUODENUM	ESOPHAGUS		
PROSTATE	1.22	0.243		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT TESTIS	1.84	0.367		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT TESTIS	1.90	0.378		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT EPIDIDYMIS	0.71	0.141		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT EPIDIDYMIS	0.70	0.139		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
RIGHT CAUDA EPID	0.2882	0.057		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
LEFT CAUDA EPID	0.3259	0.065		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
THYMUS	0.1333	0.027		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0566	0.011							
PITUITARY	0.0149	0.003							
FINAL BODY WT(G)	502.								

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74663 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.16	0.472		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	13.18	2.878		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.05	0.666		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.63	0.138		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.84	0.402		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.20	0.262		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.65	0.360		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.66	0.362		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.153		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.148					
RIGHT CAUDA EPID	0.2896	0.063					
LEFT CAUDA EPID	0.3264	0.071					
THYMUS	0.2194	0.048					
ADRENAL GLANDS	0.0520	0.011					
PITUITARY	0.0128	0.003					
FINAL BODY WT(G)	458.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74680 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.21	0.385		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.14	2.812		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.89	0.678		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.141		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.11	0.368		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.32	0.230		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.88	0.328		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.85	0.322		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.77	0.134		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.124					
RIGHT CAUDA EPID	0.3301	0.058					
LEFT CAUDA EPID	0.3462	0.060					
THYMUS	0.3046	0.053					
ADRENAL GLANDS	0.0529	0.009					
PITUITARY	0.0171	0.003					
FINAL BODY WT(G)	574.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74688 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.26	0.360		BASOPHILIC TUBULES				1
LIVER	22.67	3.616	THYMUS	MICRO: HEMORRHAGE				1
KIDNEYS	4.25	0.678	NO SIGNIFICANT					1
SPLEEN	0.82	0.131	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	1.80	0.287		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	0.93	0.148		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.81	0.289		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.87	0.298		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.74	0.118		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.68	0.108		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.2494	0.040		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.2391	0.038		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.1553	0.025		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0585	0.009		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
PITUITARY	0.0137	0.002		PITUITARY	PROSTATE	SPLEEN	SEMINAL VESICLES	
FINAL BODY WT(G)	627.			RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74692 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.459		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.27	3.102		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.15	0.685		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.64	0.139		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.14	0.465		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.26	0.274		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.81	0.393		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.86	0.404		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.137		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.59	0.128					
RIGHT CAUDA EPID	0.2818	0.061					
LEFT CAUDA EPID	0.2515	0.055					
THYMUS	0.1901	0.041					
ADRENAL GLANDS	0.0540	0.012					
PITUITARY	0.0170	0.004					
FINAL BODY WT(G)	460.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74695 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: DILATATION, TUBULAR				
BRAIN	2.38	0.386		BASOPHILIC TUBULES				1
LIVER	23.26	3.770		INFLAMMATION, SUBACUTE				1
KIDNEYS	5.41	0.877	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.85	0.138	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	2.74	0.444	NO SIGNIFICANT					
PROSTATE	1.58	0.256	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	2.08	0.337		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	2.10	0.340		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.87	0.141		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.79	0.128		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.3250	0.053		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.2896	0.047		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.1849	0.030		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0691	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0198	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	617.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74697 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.426		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.21	3.361		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.73	0.729		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.158		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	3.07	0.600		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.49	0.291		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.83	0.357		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.81	0.354		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.146		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.77	0.150					
RIGHT CAUDA EPID	0.3504	0.068					
LEFT CAUDA EPID	0.3729	0.073					
THYMUS	0.1482	0.029					
ADRENAL GLANDS	0.0854	0.017					
PITUITARY	0.0167	0.003					
FINAL BODY WT(G)	512.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74702 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.22	0.449		BASOPHILIC TUBULES					2
LIVER	14.81	2.998	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.61	0.731	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.66	0.134	NO SIGNIFICANT						
SEM VES/CG/FLUID	1.91	0.387	CHANGES OBSERVED						
PROSTATE	1.28	0.259	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
RIGHT TESTIS	1.66	0.336	CECUM	COLON	DUODENUM	ESOPHAGUS			
LEFT TESTIS	1.66	0.336	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
RIGHT EPIDIDYMIS	0.68	0.138	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
LEFT EPIDIDYMIS	0.68	0.138	MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
RIGHT CAUDA EPID	0.2575	0.052	PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
LEFT CAUDA EPID	0.2788	0.056	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
THYMUS	0.1955	0.040	SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
ADRENAL GLANDS	0.0553	0.011	TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
PITUITARY	0.0098	0.002	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
FINAL BODY WT(G)	494.		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
			PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS			
			RIGHT EPIDIDYMIS	COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74703 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.13	0.413		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.61	3.025		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.04	0.783		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	1.01	0.196		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.07	0.401		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.67	0.324		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.95	0.378		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.03	0.393		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.76	0.147		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.151					
RIGHT CAUDA EPID	0.3701	0.072					
LEFT CAUDA EPID	0.3414	0.066					
THYMUS	0.1957	0.038					
ADRENAL GLANDS	0.0688	0.013					
PITUITARY	0.0165	0.003					
FINAL BODY WT(G)	516.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74705 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
BRAIN	1.98	0.383		BILATERAL					
LIVER	15.66	3.029	LYMPH NODE, MAND	MICRO: HEMORRHAGE					1
KIDNEYS	3.39	0.656		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.76	0.147		HYPERPLASIA, LYMPHOID					1
SEM VES/CG/FLUID	1.62	0.313	NO SIGNIFICANT						
PROSTATE	1.31	0.253	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.76	0.340		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.76	0.340		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.69	0.133		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.67	0.130		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2927	0.057		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.2940	0.057		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1531	0.030		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0625	0.012		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0150	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	517.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74705 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74713 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.354		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.72	3.201		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.14	0.672		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.59	0.096		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.56	0.416		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.86	0.140		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	2.10	0.341		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.17	0.352		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.83	0.135		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.79	0.128					
RIGHT CAUDA EPID	0.2394	0.039					
LEFT CAUDA EPID	0.3516	0.057					
THYMUS	0.2617	0.042					
ADRENAL GLANDS	0.0766	0.012					
PITUITARY	0.0160	0.003					
FINAL BODY WT(G)	616.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74718 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED					P
BRAIN	2.13	0.367		ONE, 1 MM IN DIAMETER, IN CORTEX, RIGHT					
LIVER	19.26	3.321	KIDNEYS	MICRO: BASOPHILIC TUBULES					1
KIDNEYS	3.65	0.629		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SPLEEN	0.80	0.138	NO SIGNIFICANT						
SEM VES/CG/FLUID	1.92	0.331	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	1.43	0.247		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.92	0.331		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.94	0.334		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
RIGHT EPIDIDYMIS	0.79	0.136		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
LEFT EPIDIDYMIS	0.81	0.140		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
RIGHT CAUDA EPID	0.3415	0.059		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
LEFT CAUDA EPID	0.3557	0.061		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
THYMUS	0.1767	0.030		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
ADRENAL GLANDS	0.0558	0.010		RIGHT EPIDIDYMIS	COAGULATING GL				
PITUITARY	0.0137	0.002							
FINAL BODY WT(G)	580.								

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74718 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74720 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: DILATATION, TUBULAR					
BRAIN	1.97	0.358		BASOPHILIC TUBULES					1
LIVER	17.55	3.191		INFLAMMATION, SUBACUTE					1
KIDNEYS	3.48	0.633	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SPLEEN	0.69	0.125	SKIN	GROSS: HAIR LOSS					P
SEM VES/CG/FLUID	2.01	0.365		RIGHT FORELIMB					
PROSTATE	0.90	0.164	SKIN	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
RIGHT TESTIS	1.74	0.316		NO HISTOLOGIC CORRELATE TO GROSS HAIR LOSS					
LEFT TESTIS	1.67	0.304	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.65	0.118	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.78	0.142		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.3276	0.060		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.3772	0.069		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2216	0.040		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0635	0.012		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0138	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN		
FINAL BODY WT(G)	550.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				PROSTATE	SKIN	SPLEEN	SEMINAL VESICLES		
				THYMUS	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74723 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.16	0.366		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.96	3.214		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.89	0.659		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.68	0.115		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.02	0.342		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.61	0.273		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.99	0.337		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.89	0.320		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.85	0.144		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.125					
RIGHT CAUDA EPID	0.3725	0.063					
LEFT CAUDA EPID	0.3685	0.062					
THYMUS	0.1971	0.033					
ADRENAL GLANDS	0.0679	0.012					
PITUITARY	0.0169	0.003					
FINAL BODY WT(G)	590.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74725 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	2.11	0.406		INFLAMMATION, SUBACUTE				1
LIVER	21.02	4.042	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	4.26	0.819	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SPLEEN	0.95	0.183	THYMUS	MICRO: HEMORRHAGE				2
SEM VES/CG/FLUID	2.34	0.450	NO SIGNIFICANT					
PROSTATE	0.82	0.158	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.95	0.375		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.94	0.373		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.79	0.152		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.73	0.140		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.2853	0.055		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3188	0.061		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.2586	0.050		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0579	0.011		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0152	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	520.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74726 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	PITUITARY	GROSS: PALE				P
BRAIN	2.15	0.389	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
LIVER	17.28	3.125		NO CORRELATE TO GROSS PALLOR				
KIDNEYS	4.51	0.816	NO SIGNIFICANT					
SPLEEN	0.81	0.146	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.77	0.501		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.60	0.289		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.72	0.311		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.74	0.315		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.71	0.128		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
LEFT EPIDIDYMIS	0.72	0.130		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
RIGHT CAUDA EPID	0.3406	0.062		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
LEFT CAUDA EPID	0.3099	0.056		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
THYMUS	0.1953	0.035		RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0863	0.016		MICRO:PITUITARY				
PITUITARY	0.0143	0.003						
FINAL BODY WT(G)	553.							

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 133

ANIMAL NO. 74726 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 160 (F0 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74728 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	2.17	0.344		INFLAMMATION, SUBACUTE				2
LIVER	20.09	3.189	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	4.38	0.695	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SPLEEN	0.79	0.125	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	1.66	0.263	NO SIGNIFICANT					
PROSTATE	1.81	0.287	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.78	0.283		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.78	0.283		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.74	0.117		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.82	0.130		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.3068	0.049		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3636	0.058		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.2696	0.043		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0660	0.010		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0149	0.002		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	630.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PGRHv4.41  
 07/08/2003

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 1

ANIMAL NO. 74737 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.630		9,5				
LIVER	11.95	3.880	NO SIGNIFICANT					
KIDNEYS	2.31	0.750	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.56	0.182		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.44	0.143		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2073	0.067		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1259	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0767	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0271	0.009		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	308.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 2

ANIMAL NO. 74740 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.697		11,3				
LIVER	11.92	4.110	NO SIGNIFICANT					
KIDNEYS	2.23	0.769	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.65	0.224		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.76	0.262		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2771	0.096		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1072	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0737	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0203	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	290.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74745 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.99	0.567		0,0	P
LIVER	17.37	4.949	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.38	0.678	KIDNEYS	MICRO: DILATATION, TUBULAR	1
SPLEEN	0.56	0.160		HYPERPLASIA, TUBULAR	1
UTERUS/CX/OD	0.93	0.265		BASOPHILIC TUBULES	1
THYMUS	0.2264	0.065	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
OVARIES	0.0669	0.019		BILATERAL	
ADRENAL GLANDS	0.0811	0.023	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
PITUITARY	0.0308	0.009		CORRELATES TO GROSS RED DISCOLORATION	
FINAL BODY WT(G)	351.			HYPERPLASIA, LYMPHOID	1
			OVARIES	MICRO: DECREASED CORPORA LUTEA	4
				BILATERAL	
			THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH DIESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	NERVE, SCIATIC
				PANCREAS	PITUITARY
				SAL. GLAND MAND	STOMACH
				SPLEEN	THYROID GLANDS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				OVIDUCTS	PITUITARY
				VAGINA	CERVIX
					BRAIN
					SPLEEN
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					RECTUM
					RECTUM
					SKELETAL MUSCLE
					SKIN
					THYMUS
					VAGINA
					CERVIX
					LIVER
					UTERUS

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74745 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74749 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.89	0.616		0,0	P
LIVER	11.35	3.697	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.07	0.674	BRAIN	MICRO: HYDROCEPHALUS	3
SPLEEN	0.61	0.199	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
UTERUS/CX/OD	1.60	0.521	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
THYMUS	0.2116	0.069		BILATERAL	
OVARIES	0.0867	0.028	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
ADRENAL GLANDS	0.0547	0.018		CORRELATES TO GROSS RED DISCOLORATION	
PITUITARY	0.0154	0.005		HYPERPLASIA, LYMPHOID	1
FINAL BODY WT(G)	307.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			LUNGS	GROSS: AREA(S), DARK RED	P
				MULTIPLE, 2 TO 1 MM IN DIAMETER, LEFT LOBE	
			LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	2
				MACROPHAGES, ALVEOLAR	1
				NO CORRELATE TO GROSS REDNESS	
			OVARIES	MICRO: CYST	2
			THYMUS	MICRO: HEMORRHAGE	2
			UTERUS	GROSS: DISTENDED	P
				LEFT HORN	
			UTERUS	MICRO: DILATATION, LUMEN	4
				CORRELATES TO GROSS DISTENTION	
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH ESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				CECUM	AORTA
				EYES/OPTIC N.	COLON
					HEART
					STERNEBRAE
					DUODENUM
					ILEUM
					BRAIN
					ESOPHAGUS
					JEJUNUM

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74749 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND  
NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS  
PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND  
STOMACH SKELETAL MUSCLE SKIN SPLEEN  
THYROID GLANDS THYMUS TRACHEA URINARY BLADDER  
VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA OVIDUCTS PITUITARY  
SPLEEN VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74756 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.07	0.609		0,0	P
LIVER	18.65	5.485	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.41	0.709	KIDNEYS	GROSS: AREA(S), WHITE	P
SPLEEN	0.68	0.200		ONE, IRREGULARLY SHAPED, IN CORTEX, RIGHT	
UTERUS/CX/OD	1.34	0.394	KIDNEYS	MICRO: INFLAMMATION, PYOGRANULOMATOUS	3
THYMUS	0.1750	0.051		FOCAL; CORRELATES TO GROSS WHITE AREA	
OVARIES	0.0640	0.019		DILATATION, TUBULAR	3
ADRENAL GLANDS	0.0888	0.026		CORTEX AND MEDULLA	
PITUITARY	0.0410	0.012		INFLAMMATION, SUBACUTE	3
FINAL BODY WT(G)	340.			AROUND URINARY SPACE	
				HYPERPLASIA, TRANSITIONAL CELL	2
				MINERALIZATION, TUBULAR	1
			OVARIES	MICRO: DECREASED CORPORA LUTEA	4
				BILATERAL	
			THYMUS	MICRO: HEMORRHAGE	1
			UTERUS	MICRO: DILATATION, LUMEN	2
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH PROESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				LIVER	LUNGS
				NERVE, SCIATIC	OVARIES
				PITUITARY	SPINAL CORD
				STOMACH	SKIN
					BRAIN
					ESOPHAGUS
					JEJUNUM
					MAMMARY GLAND
					PANCREAS
					SAL. GLAND MAND
					SPLEEN

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74756 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

-----  
THYROID GLANDS THYMUS TRACHEA URINARY BLADDER  
UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN LIVER  
OVIDUCTS PITUITARY SPLEEN VAGINA  
CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74757 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.93	0.617		6,11				P
LIVER	11.76	3.757	EAR(S)	GROSS: SWOLLEN				P
KIDNEYS	2.25	0.719		BILATERAL				
SPLEEN	0.77	0.246	EAR(S)	MICRO: CHONDROPATHY, AURICULAR				3
UTERUS/CX/OD	1.02	0.326		CORRELATES TO GROSS SWOLLEN				
THYMUS	0.3079	0.098	NO SIGNIFICANT					
OVARIES	0.1318	0.042	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
ADRENAL GLANDS	0.0885	0.028		CECUM	COLON	DUODENUM	ESOPHAGUS	
PITUITARY	0.0244	0.008		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
FINAL BODY WT(G)	313.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74759 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.95	0.709		3,10				P
LIVER	11.84	4.305	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS				P
KIDNEYS	1.87	0.680	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.55	0.200	THYMUS	MICRO: HEMORRHAGE				1
UTERUS/CX/OD	0.55	0.200	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
THYMUS	0.3333	0.121		CONSISTENT WITH EARLY DIESTRUS				
OVARIES	0.1112	0.040	NO SIGNIFICANT					
ADRENAL GLANDS	0.0582	0.021	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0112	0.004		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	275.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74764 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.93	0.594		8,8	P
LIVER	13.34	4.105	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.33	0.717	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.60	0.185		FOCAL	
UTERUS/CX/OD	0.55	0.169		FIBROSIS, CORTICAL	2
THYMUS	0.2814	0.087		FOCAL	
OVARIES	0.1171	0.036	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0802	0.025	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0224	0.007	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	325.			CONSISTENT WITH DIESTRUS	

NO SIGNIFICANT  
 CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	UTERUS	VAGINA	CERVIX
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS
OVARIES	PITUITARY	SPLEEN	UTERUS
VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74767 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.96	0.660		10,7	
LIVER	13.77	4.636	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.07	0.697	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	2
SPLEEN	0.58	0.195		AROUND URINARY SPACE	
UTERUS/CX/OD	0.98	0.330		HYPERPLASIA, TRANSITIONAL CELL	1
THYMUS	0.2007	0.068	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
OVARIES	0.1202	0.040	OVARIES	MICRO: CYST	1
ADRENAL GLANDS	0.0692	0.023	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0224	0.008	UTERUS	MICRO: DILATATION, LUMEN	2
FINAL BODY WT(G)	297.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH PROESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	OVIDUCTS
				PANCREAS	RECTUM
				SAL. GLAND MAND	SKELETAL MUSCLE
				SPLEEN	THYMUS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				PITUITARY	SPLEEN
					VAGINA
					BRAIN
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					OVIDUCTS
					CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74772 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.11	0.628		11,4				
LIVER	14.81	4.408	NO SIGNIFICANT					
KIDNEYS	2.14	0.637	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.67	0.199		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.82	0.244		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.1941	0.058		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1398	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0875	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0193	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	336.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74773 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.10	0.575		12,6				P
LIVER	14.09	3.860	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED				P
KIDNEYS	2.23	0.611		BILATERAL				
SPLEEN	1.00	0.274	LYMPH NODE, MAND	MICRO: HEMORRHAGE				3
UTERUS/CX/OD	0.68	0.186		CORRELATES TO GROSS RED DISCOLORATION				
THYMUS	0.4026	0.110		HYPERPLASIA, LYMPHOID				1
OVARIES	0.1267	0.035	NO SIGNIFICANT					
ADRENAL GLANDS	0.0805	0.022	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0196	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	365.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74774 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.590		7,8				
LIVER	11.36	3.453	NO SIGNIFICANT					
KIDNEYS	2.14	0.650	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.58	0.176		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.10	0.334		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2385	0.072		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0916	0.028		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0640	0.019		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0165	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	329.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74779 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.93	0.592		0,0	
LIVER	12.87	3.948	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.08	0.638	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.57	0.175		MINERALIZATION, TUBULAR	1
UTERUS/CX/OD	0.63	0.193	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2076	0.064	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0938	0.029		CONSISTENT WITH EARLY DIESTRUS	
ADRENAL GLANDS	0.0733	0.022	NO SIGNIFICANT		
PITUITARY	0.0208	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	326.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN LIVER	
				OVIDUCTS OVARIES PITUITARY SPLEEN	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74789 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)		
BRAIN	1.98	0.683		10,4	P	
LIVER	14.19	4.893	LYMPH NODE, MED	GROSS: ENLARGED	P	
KIDNEYS	2.27	0.783	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID	1	
SPLEEN	0.65	0.224		CORRELATES TO GROSS ENLARGEMENT		
UTERUS/CX/OD	0.77	0.266	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P	
THYMUS	0.2447	0.084		BILATERAL		
OVARIES	0.1078	0.037	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3	
ADRENAL GLANDS	0.0856	0.030		CORRELATES TO GROSS RED DISCOLORATION		
PITUITARY	0.0177	0.006		HYPERPLASIA, LYMPHOID	1	
FINAL BODY WT(G)	290.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA CECUM COLON EYES/OPTIC N. HEART KIDNEYS LIVER MAMMARY GLAND NERVE, SCIATIC PANCREAS PITUITARY SAL. GLAND MAND STOMACH SPLEEN THYROID GLANDS URINARY BLADDER UTERUS	STERNEBRAE DUODENUM ILEUM LYMPH NODE, MES OVIDUCTS RECTUM SKELETAL MUSCLE VAGINA	BRAIN ESOPHAGUS JEJUNUM LUNGS OVARIES SPINAL CORD SKIN TRACHEA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74794 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.98	0.563		0,0	
LIVER	13.77	3.912	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.34	0.665	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.66	0.188	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.57	0.162	MAMMARY GLAND	MICRO: #M ADENOCARCINOMA	P
THYMUS	0.2356	0.067		CORRELATES WITH MASS #1	
OVARIES	0.0944	0.027	OVARIES	MICRO: CYST	1
ADRENAL GLANDS	0.0718	0.020	PITUITARY	MICRO: HYPERPLASIA, PARS DISTALIS	1
PITUITARY	0.0215	0.006		FOCAL	
FINAL BODY WT(G)	352.		SKIN	GROSS: MASS	P
				20 X 15 X 15 MM, TAN, VENTRAL NECK, MASS #1	
			SKIN	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				GROSS OBSERVATION OF MASS #1 ACTUALLY IN MAMMARY GLAND	
			THYMUS	MICRO: HEMORRHAGE	2
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74794 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
GRADE

-----  
SKIN  
CERVIX

SPLEEN

UTERUS

VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT  
# = NEOPLASM, M = MALIGNANT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74804 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.90	0.642		10,9	
LIVER	10.53	3.557	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.06	0.696	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.55	0.186	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.78	0.264	OVARIES	MICRO: CYST	1
THYMUS	0.3104	0.105	UTERUS	MICRO: DILATATION, LUMEN	2
OVARIES	0.1337	0.045	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0906	0.031		CONSISTENT WITH METESTRUS	
PITUITARY	0.0194	0.007	NO SIGNIFICANT		
FINAL BODY WT(G)	296.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS PITUITARY SPLEEN THYMUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74808 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.08	0.594		9,9				P
LIVER	13.03	3.723	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS				P
KIDNEYS	2.59	0.740	KIDNEYS	MICRO: BASOPHILIC TUBULES				1
SPLEEN	0.57	0.163	UTERUS	MICRO: IMPLANTATION SITE				P
UTERUS/CX/OD	0.92	0.263	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
THYMUS	0.2843	0.081		CONSISTENT WITH ESTRUS				
OVARIES	0.1770	0.051	NO SIGNIFICANT					
ADRENAL GLANDS	0.0974	0.028	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0241	0.007		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	350.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				THYMUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74810 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.98	0.595		9,8	P
LIVER	15.29	4.592	LIVER	GROSS: AREA(S), DARK RED	P
KIDNEYS	2.73	0.820		MULTIPLE, 2 TO 1 MM IN DIAMETER, MEDIAN LOBE	
SPLEEN	0.70	0.210	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.58	0.174		NO CORRELATE TO GROSS RED AREA	
THYMUS	0.2173	0.065	NO SIGNIFICANT		
OVARIES	0.1118	0.034	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0748	0.022		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0161	0.005		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	333.			KIDNEYS LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74815 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.03	0.592		0,0	P
LIVER	13.92	4.058	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.40	0.700	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.56	0.163	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.88	0.257	OVARIES	MICRO: DECREASED CORPORA LUTEA	4
THYMUS	0.1757	0.051		BILATERAL	
OVARIES	0.0638	0.019	PITUITARY	GROSS: ENLARGED	P
ADRENAL GLANDS	0.0760	0.022		6 X 5 X 3 MM	
PITUITARY	0.0445	0.013	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	343.			NO CORRELATE TO GROSS ENLARGEMENT	
			SKIN	GROSS: HAIR LOSS	P
				VENTRAL ABDOMINAL	
			SKIN	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				NO CORRELATE TO GROSS HAIR LOSS	
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SPLEEN THYROID GLANDS	
				THYMUS TRACHEA URINARY BLADDER UTERUS	
				VAGINA CERVIX	
			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA BRAIN OVIDUCTS	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74815 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
GRADE

PITUITARY  
UTERUS

SKIN  
VAGINA

SPLEEN  
CERVIX

THYMUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74826 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.99	0.646		4,9				
LIVER	12.29	3.990	NO SIGNIFICANT					
KIDNEYS	2.20	0.714	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.58	0.188		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2893	0.094		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1192	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0921	0.030		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0149	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	308.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74828 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE	
BRAIN	1.95	0.633		0,0	P	
LIVER	11.60	3.766	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P	
KIDNEYS	1.80	0.584	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1	
SPLEEN	0.47	0.153	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P	
UTERUS/CX/OD	0.66	0.214		BILATERAL		
THYMUS	0.2237	0.073	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3	
OVARIES	0.0967	0.031		CORRELATES TO GROSS RED DISCOLORATION		
ADRENAL GLANDS	0.0727	0.024		HYPERPLASIA, LYMPHOID	1	
PITUITARY	0.0172	0.006	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED		
FINAL BODY WT(G)	308.			CONSISTENT WITH EARLY DIESTRUS		
			NO SIGNIFICANT CHANGES OBSERVED			
			GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
			CECUM	COLON	DUODENUM	ESOPHAGUS
			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
			MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
			PANCREAS	PITUITARY	RECTUM	SPINAL CORD
			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
			URINARY BLADDER	UTERUS	VAGINA	CERVIX
			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER
			OVIDUCTS	OVARIES	PITUITARY	SPLEEN
			THYMUS	UTERUS	VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74829 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.08	0.656		8,10	P
LIVER	11.87	3.744	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.03	0.640	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.75	0.237		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.79	0.249	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
THYMUS	0.2392	0.075		BILATERAL	
OVARIES	0.1275	0.040	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
ADRENAL GLANDS	0.0664	0.021		CORRELATES TO GROSS RED DISCOLORATION	
PITUITARY	0.0281	0.009		HYPERPLASIA, LYMPHOID	1
FINAL BODY WT(G)	317.			PLASMACYTOSIS	2
			LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	1
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74840 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.09	0.649		3,1	
LIVER	15.04	4.671	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.17	0.674	OVARIES	MICRO: CYST	2
SPLEEN	0.54	0.168		CAPSULAR	
UTERUS/CX/OD	0.80	0.248	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2427	0.075	UTERUS	MICRO: DILATATION, LUMEN	2
OVARIES	0.1266	0.039	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0697	0.022		CONSISTENT WITH PROESTRUS	
PITUITARY	0.0164	0.005	NO SIGNIFICANT		
FINAL BODY WT(G)	322.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS LIVER OVIDUCTS PITUITARY SPLEEN VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74841 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.97	0.709		7,7	
LIVER	9.87	3.550	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.15	0.773	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.50	0.180	OVARIES	MICRO: MINERALIZATION	1
UTERUS/CX/OD	0.58	0.209	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.3475	0.125	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.1052	0.038		CONSISTENT WITH ESTRUS	
ADRENAL GLANDS	0.0824	0.030	NO SIGNIFICANT		
PITUITARY	0.0216	0.008	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	278.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS	
				OVIDUCTS PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74842 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.07	0.603		0,0	P
LIVER	16.04	4.676	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.45	0.714	OVARIES	MICRO: DECREASED CORPORA LUTEA	4
SPLEEN	0.51	0.149		BILATERAL	
UTERUS/CX/OD	0.93	0.271	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.3064	0.089	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0561	0.016		CONSISTENT WITH METESTRUS	
ADRENAL GLANDS	0.0770	0.022	NO SIGNIFICANT		
PITUITARY	0.0290	0.008	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	343.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS	
				LIVER OVIDUCTS PITUITARY SPLEEN	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74844 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.96	0.620		9,5	
LIVER	15.46	4.892	KIDNEYS	GROSS: DILATED PELVIS	1
KIDNEYS	2.74	0.867		BILATERAL	
SPLEEN	0.59	0.187	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
UTERUS/CX/OD	1.01	0.320		INFLAMMATION, SUBACUTE	1
THYMUS	0.2648	0.084		HYDRONEPHROSIS	2
OVARIES	0.1121	0.035		CONFIRM GROSS OBSERVATION OF DILATED PELVIS	
ADRENAL GLANDS	0.0928	0.029	SKIN	GROSS: HAIR LOSS	P
PITUITARY	0.0199	0.006		FORELIMB, BILATERAL	
FINAL BODY WT(G)	316.		SKIN	MICRO: NOT EXAMINED	
				COULD NOT CONFIRM GROSS HAIR LOSS; SKIN NOT PRESENT AT TRIMMING	

NO SIGNIFICANT  
 CHANGES OBSERVED GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN  
 CECUM COLON DUODENUM ESOPHAGUS  
 EYES/OPTIC N. HEART ILEUM JEJUNUM  
 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
 NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS  
 PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND  
 STOMACH SKELETAL MUSCLE SPLEEN THYROID GLANDS  
 THYMUS TRACHEA URINARY BLADDER UTERUS  
 VAGINA CERVIX

NOT EXAMINED

MICRO:SKIN

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74845 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P	
BRAIN	1.93	0.571		6,8		
LIVER	13.77	4.074	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P	
KIDNEYS	2.07	0.612	ADRENAL CORTEX	MICRO: DEGENERATION, CYSTIC	2	
SPLEEN	0.61	0.180		FOCAL		
UTERUS/CX/OD	0.77	0.228	KIDNEYS	MICRO: BASOPHILIC TUBULES	1	
THYMUS	0.2887	0.085		INFLAMMATION, SUBACUTE	1	
OVARIES	0.1210	0.036	THYMUS	MICRO: HEMORRHAGE	1	
ADRENAL GLANDS	0.0759	0.022	UTERUS	MICRO: IMPLANTATION SITE	P	
PITUITARY	0.0227	0.007		ACCUMULATION OF MACROPHAGES CONTAINING GOLDEN BROWN PIGMENT		
FINAL BODY WT(G)	338.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED		
				CONSISTENT WITH EARLY DIESTRUS		
			NO SIGNIFICANT CHANGES OBSERVED			
			GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
				CECUM	DUODENUM	ESOPHAGUS
				EYES/OPTIC N.	ILEUM	JEJUNUM
				KIDNEYS	LYMPH NODE, MES	LUNGS
				MAMMARY GLAND	NERVE, SCIATIC	OVARIES
				PANCREAS	PITUITARY	RECTUM
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE
				SPLEEN	THYROID GLANDS	THYMUS
				URINARY BLADDER	UTERUS	VAGINA
				MICRO:ADRENAL MEDULLA	BRAIN	LIVER
				OVARIES	PITUITARY	SPLEEN
				CERVIX		VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74854 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.95	0.619		8,9	
LIVER	13.45	4.270	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.38	0.756	LYMPH NODE, MED	GROSS: ENLARGED	P
SPLEEN	0.67	0.213	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID	1
UTERUS/CX/OD	0.71	0.225		CORRELATES TO GROSS ENLARGEMENT	
THYMUS	0.2327	0.074	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
OVARIES	0.1246	0.040	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0787	0.025		PERIARTERITIS	1
PITUITARY	0.0216	0.007		FOCAL	
FINAL BODY WT(G)	315.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH EARLY DIESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN THYMUS	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74864 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.86	0.549		8,9				
LIVER	14.86	4.383	NO SIGNIFICANT					
KIDNEYS	2.33	0.687	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.52	0.153		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.49	0.145		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2122	0.063		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1008	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0819	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0137	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	339.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74867 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.89	0.587		4,10				
LIVER	12.65	3.929	NO SIGNIFICANT					
KIDNEYS	2.19	0.680	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.205		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.00	0.311		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3434	0.107		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0949	0.029		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0732	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0165	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	322.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74742 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.658		11,9				
LIVER	13.45	4.381	NO SIGNIFICANT					
KIDNEYS	2.54	0.827	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.55	0.179		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2786	0.091		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1193	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0814	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0176	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	307.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74746 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.10	0.650		7,8				P
LIVER	13.36	4.136	SKIN	GROSS: MATTING, RED				P
KIDNEYS	2.35	0.728		OCULAR, RIGHT				
SPLEEN	0.60	0.186	NO SIGNIFICANT					
UTERUS/CX/OD	0.90	0.279	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
THYMUS	0.1824	0.056		CECUM	COLON	DUODENUM	ESOPHAGUS	
OVARIES	0.1039	0.032		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
ADRENAL GLANDS	0.0991	0.031		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PITUITARY	0.0213	0.007		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
FINAL BODY WT(G)	323.			PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74753 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.99	0.585		10,7				
LIVER	13.01	3.826	NO SIGNIFICANT					
KIDNEYS	2.11	0.621	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.194		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.83	0.244		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3603	0.106		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1309	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0873	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0208	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	340.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74761 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.97	0.621		7,9				
LIVER	15.09	4.760	NO SIGNIFICANT					
KIDNEYS	2.24	0.707	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.199		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.73	0.230		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2210	0.070		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0955	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0743	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0178	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	317.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74762 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.757		8,6				
LIVER	12.27	4.596	NO SIGNIFICANT					
KIDNEYS	2.06	0.772	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.44	0.165		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.56	0.210		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4007	0.150		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1116	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0874	0.033		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0187	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	267.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74765 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.619		1,2				
LIVER	10.90	3.516	NO SIGNIFICANT					
KIDNEYS	1.85	0.597	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.219		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.61	0.197		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3575	0.115		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1030	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0656	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0194	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	310.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74782 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.01	0.604		7,8				
LIVER	12.13	3.643	NO SIGNIFICANT					
KIDNEYS	2.40	0.721	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.74	0.222		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.65	0.195		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4491	0.135		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1269	0.038		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0909	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0124	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	333.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74785 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.88	0.542		7,10				
LIVER	13.77	3.968	NO SIGNIFICANT					
KIDNEYS	2.10	0.605	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.53	0.153		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.91	0.262		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2512	0.072		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1073	0.031		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0682	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0178	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	347.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74790 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.00	0.587		7,10				
LIVER	12.69	3.721	NO SIGNIFICANT					
KIDNEYS	1.99	0.584	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.72	0.211		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.85	0.249		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3836	0.112		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1008	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0892	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0192	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	341.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74796 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.93	0.563		13,4				
LIVER	15.12	4.408	NO SIGNIFICANT					
KIDNEYS	2.14	0.624	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.53	0.155		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.56	0.163		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3337	0.097		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1131	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0736	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0262	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	343.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74797 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.84	0.597		8,8	P
LIVER	13.88	4.506	KIDNEYS	GROSS: DILATED PELVIS	2
KIDNEYS	2.25	0.731		RIGHT	
SPLEEN	0.68	0.221	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
UTERUS/CX/OD	0.63	0.205		INFLAMMATION, SUBACUTE	1
THYMUS	0.3022	0.098		FIBROSIS, CORTICAL	1
OVARIES	0.1069	0.035		DILATATION, TUBULAR	2
ADRENAL GLANDS	0.0793	0.026		MEDULLA	
PITUITARY	0.0170	0.006		HYDRONEPHROSIS	2
FINAL BODY WT(G)	308.			CONFIRM GROSS OBSERVATION OF DILATED PELVIS	
			SPLEEN	GROSS: CYST(S)	P
				SEVERAL, 1 TO 2 MM IN DIAMETER	
			SPLEEN	MICRO: CYST	2
				CONFIRM GROSS CYST	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN THYROID GLANDS	
				THYMUS TRACHEA URINARY BLADDER UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74798 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.01	0.628		4,10				
LIVER	14.00	4.375	NO SIGNIFICANT					
KIDNEYS	2.30	0.719	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.71	0.222		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.56	0.175		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2214	0.069		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0997	0.031		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0697	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	320.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74802 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.00	0.639		7,9				
LIVER	15.00	4.792	NO SIGNIFICANT					
KIDNEYS	2.22	0.709	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.70	0.224		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.91	0.291		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4846	0.155		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1112	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0859	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0248	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	313.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74809 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.02	0.687		8,6				P
LIVER	12.63	4.296	LYMPH NODE, BRON	GROSS: ENLARGED				P
KIDNEYS	2.22	0.755	LYMPH NODE, BRON	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
SPLEEN	0.56	0.190		NO CORRELATE TO GROSS ENLARGEMENT				
UTERUS/CX/OD	0.57	0.194	NO SIGNIFICANT					
THYMUS	0.2770	0.094	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
OVARIES	0.0896	0.030		CECUM	COLON	DUODENUM	ESOPHAGUS	
ADRENAL GLANDS	0.0763	0.026		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PITUITARY	0.0164	0.006		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
FINAL BODY WT(G)	294.			MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:LYMPH NODE, BRON				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74812 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.95	0.595		8,7				
LIVER	12.93	3.942	NO SIGNIFICANT					
KIDNEYS	1.95	0.595	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.201		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.58	0.177		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2741	0.084		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1138	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0769	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0121	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	328.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74816 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.04	0.609		7,11				
LIVER	13.42	4.006	NO SIGNIFICANT					
KIDNEYS	2.27	0.678	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.56	0.167		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.65	0.194		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3455	0.103		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1321	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0763	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0194	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	335.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74819 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.21	0.660		6,8	P
LIVER	13.97	4.170	ADIPOSE TISSUE	GROSS: DISCOLORATION, YELLOW	P
KIDNEYS	2.51	0.749		ONE, 3 X 3 X 2 MM, ADJACENT TO RIGHT OVARY	
SPLEEN	0.68	0.203	ADIPOSE TISSUE	MICRO: NECROSIS	2
UTERUS/CX/OD	0.52	0.155		CORRELATES TO GROSS YELLOW DISCOLORATION; MINERALIZATION AND FIBROSIS OF NECROTIC FOCUS	
THYMUS	0.2647	0.079			
OVARIES	0.1258	0.038	LYMPH NODE, BRON	GROSS: ENLARGED	P
ADRENAL GLANDS	0.0801	0.024	LYMPH NODE, BRON	MICRO: HYPERPLASIA, LYMPHOID	1
PITUITARY	0.0195	0.006		CORRELATES TO GROSS ENLARGEMENT	
FINAL BODY WT(G)	335.			PLASMACYTOSIS	1
				CORRELATES TO GROSS ENLARGEMENT	

NO SIGNIFICANT

CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
	CECUM	COLON	DUODENUM	ESOPHAGUS
	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
	MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
	PANCREAS	PITUITARY	RECTUM	SPINAL CORD
	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
	SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
	URINARY BLADDER	UTERUS	VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74823 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.05	0.594		6,10					P
LIVER	17.65	5.116	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	2.59	0.751		BILATERAL					
SPLEEN	0.64	0.186	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
UTERUS/CX/OD	1.02	0.296		CORRELATES TO GROSS RED DISCOLORATION					
THYMUS	0.3014	0.087		HYPERPLASIA, LYMPHOID					1
OVARIES	0.1442	0.042	NO SIGNIFICANT						
ADRENAL GLANDS	0.0844	0.024	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0156	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	345.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74824 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.93	0.619		10,8	P
LIVER	14.68	4.705	LYMPH NODE, MAND	GROSS: ENLARGED	P
KIDNEYS	2.15	0.689		RIGHT	
SPLEEN	0.54	0.173	LYMPH NODE, MAND	MICRO: HEMORRHAGE	1
UTERUS/CX/OD	0.59	0.189		HYPERPLASIA, LYMPHOID	1
THYMUS	0.3158	0.101		CORRELATES TO GROSS ENLARGEMENT	
OVARIES	0.1138	0.036		PLASMACYTOSIS	2
ADRENAL GLANDS	0.0851	0.027		CORRELATES TO GROSS ENLARGEMENT	
PITUITARY	0.0170	0.005	NO SIGNIFICANT		
FINAL BODY WT(G)	312.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74835 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.87	0.703		5,10				
LIVER	10.04	3.774	NO SIGNIFICANT					
KIDNEYS	2.10	0.789	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.51	0.192		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.67	0.252		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2146	0.081		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1269	0.048		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0757	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0152	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	266.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74838 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.06	0.613		7,10				
LIVER	12.35	3.676	NO SIGNIFICANT					
KIDNEYS	2.52	0.750	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.87	0.259		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.68	0.202		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3078	0.092		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1238	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0867	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0192	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	336.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74839 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.08	0.636		4,14				
LIVER	17.42	5.327	NO SIGNIFICANT					
KIDNEYS	2.78	0.850	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.76	0.232		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.64	0.196		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4289	0.131		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1377	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0913	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0191	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	327.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74846 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.96	0.611		8,6				
LIVER	13.78	4.293	NO SIGNIFICANT					
KIDNEYS	2.19	0.682	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.52	0.162		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.60	0.187		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3209	0.100		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0968	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0648	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0156	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	321.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74856 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.06	0.640		9,8					P
LIVER	13.84	4.298	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	2.49	0.773		BILATERAL					
SPLEEN	0.64	0.199	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
UTERUS/CX/OD	0.61	0.189		CORRELATES TO GROSS RED DISCOLORATION					
THYMUS	0.3216	0.100		HYPERPLASIA, LYMPHOID					1
OVARIES	0.1363	0.042	NO SIGNIFICANT						
ADRENAL GLANDS	0.0770	0.024	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0202	0.006		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	322.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74859 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.96	0.607		9,5	P
LIVER	14.63	4.529	KIDNEYS	GROSS: AREA(S), RAISED	P
KIDNEYS	3.43	1.062		FEW, 2 MM IN DIAMETER, IN MEDULLA, BILATERAL	
SPLEEN	0.68	0.211	KIDNEYS	MICRO: HYDRONEPHROSIS	2
UTERUS/CX/OD	0.68	0.211		BILATERAL	
THYMUS	0.1818	0.056		BASOPHILIC TUBULES	2
OVARIES	0.1339	0.041		INFLAMMATION, SUBACUTE	4
ADRENAL GLANDS	0.1096	0.034		AROUND URINARY SPACE; CORRELATES TO GROSS RAISED AREAS	
PITUITARY	0.0166	0.005		INFLAMMATION, PYOGRANULOMATOUS	3
FINAL BODY WT(G)	323.			MULTIFOCAL	
			URINARY BLADDER	HYPERPLASIA, TRANSITIONAL CELL	2
			URINARY BLADDER	GROSS: THICKENED	P
			URINARY BLADDER	GROSS: CALCULUS(I)	P
				TWO, 11 X 9 X 8 AND 15 X 10 X 10 MM	
			URINARY BLADDER	MICRO: HYPERPLASIA, TRANSITIONAL CELL	3
				DIFFUSE; CORRELATES WITH GROSS THICKENED	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74861 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.93	0.601		1,4	P
LIVER	12.01	3.741	KIDNEYS	GROSS: DILATED PELVIS	1
KIDNEYS	2.20	0.685		LEFT	
SPLEEN	0.50	0.156	KIDNEYS	MICRO: HYDRONEPHROSIS	2
UTERUS/CX/OD	0.95	0.296		CONFIRM GROSS OBSERVATION OF DILATED PELVIS	
THYMUS	0.1860	0.058	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
OVARIES	0.1330	0.041		BILATERAL	
ADRENAL GLANDS	0.0868	0.027	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
PITUITARY	0.0188	0.006		CORRELATES TO GROSS RED DISCOLORATION	
FINAL BODY WT(G)	321.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74863 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.00	0.601		7,8				
LIVER	13.82	4.150	NO SIGNIFICANT					
KIDNEYS	2.22	0.667	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.70	0.210		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.16	0.348		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2685	0.081		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1214	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0894	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0185	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	333.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74869 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.697		7,4				
LIVER	11.37	3.921	NO SIGNIFICANT					
KIDNEYS	2.22	0.766	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.228		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.06	0.366		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.1674	0.058		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1073	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0651	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0193	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	290.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74873 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.99	0.565		0,0	
LIVER	13.61	3.866	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.40	0.682	KIDNEYS	MICRO: MINERALIZATION, PELVIC	2
SPLEEN	0.62	0.176		UNILATERAL	
UTERUS/CX/OD	0.98	0.278	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2636	0.075	UTERUS	MICRO: DILATATION, LUMEN	2
OVARIES	0.0984	0.028	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0661	0.019		CONSISTENT WITH METESTRUS	
PITUITARY	0.0209	0.006	NO SIGNIFICANT		
FINAL BODY WT(G)	352.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN LIVER OVIDUCTS OVARIES PITUITARY SPLEEN VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74738 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.97	0.654		10,5	P
LIVER	14.60	4.850	LUNGS	GROSS: AREA(S), DARK RED	P
KIDNEYS	2.35	0.781		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
SPLEEN	0.59	0.196	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
UTERUS/CX/OD	0.47	0.156		NO CORRELATE TO GROSS REDNESS	
THYMUS	0.1657	0.055	NO SIGNIFICANT		
OVARIES	0.0849	0.028	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0782	0.026		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0233	0.008		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	301.			KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74739 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.94	0.620		9,9				P
LIVER	13.32	4.256	EAR(S)	GROSS: SWOLLEN				P
KIDNEYS	2.32	0.741		BILATERAL				
SPLEEN	0.60	0.192	EAR(S)	MICRO: CHONDROPATHY, AURICULAR				2
UTERUS/CX/OD	1.02	0.326		CORRELATES TO GROSS SWOLLEN				
THYMUS	0.2920	0.093	NO SIGNIFICANT					
OVARIES	0.1257	0.040	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
ADRENAL GLANDS	0.0790	0.025		CECUM	COLON	DUODENUM	ESOPHAGUS	
PITUITARY	0.0220	0.007		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
FINAL BODY WT(G)	313.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74743 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.09	0.641		6,8				
LIVER	12.00	3.681	NO SIGNIFICANT					
KIDNEYS	2.29	0.702	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.64	0.196		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.15	0.353		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2762	0.085		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1196	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0755	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0130	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	326.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74744 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.686		8,8				
LIVER	12.26	4.332	NO SIGNIFICANT					
KIDNEYS	2.26	0.799	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.52	0.184		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.79	0.279		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2613	0.092		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1188	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0690	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0148	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	283.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74748 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.09	0.624		7,4				
LIVER	13.14	3.922	NO SIGNIFICANT					
KIDNEYS	2.27	0.678	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.74	0.221		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.88	0.263		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2624	0.078		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1344	0.040		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0730	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0189	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	335.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74752 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.604		7,9				
LIVER	13.47	4.236	NO SIGNIFICANT					
KIDNEYS	2.39	0.752	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.51	0.160		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.72	0.226		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.1620	0.051		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1102	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0721	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0185	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	318.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74766 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.11	0.746		8,8				
LIVER	10.29	3.636	NO SIGNIFICANT					
KIDNEYS	1.90	0.671	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.216		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.77	0.272		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3851	0.136		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1371	0.048		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0905	0.032		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0185	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	283.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74777 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.06	0.532		0,0	P
LIVER	14.60	3.773	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.34	0.605	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.65	0.168	THYMUS	MICRO: HEMORRHAGE	1
UTERUS/CX/OD	0.56	0.145	UTERUS	GROSS: CONTENTS, GREEN	P
THYMUS	0.3540	0.091		BOTH HORNS	
OVARIES	0.0726	0.019	UTERUS	MICRO: INFLAMMATION, SUBACUTE	1
ADRENAL GLANDS	0.0746	0.019		CORRELATES WITH GROSS GREEN CONTENTS	
PITUITARY	0.0188	0.005	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	387.			CONSISTENT WITH ESTRUS	

NO SIGNIFICANT CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	CERVIX	
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS
OVIDUCTS	OVARIES	PITUITARY	SPLEEN
VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74780 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.603		5,7				
LIVER	12.00	3.582	NO SIGNIFICANT					
KIDNEYS	1.99	0.594	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.43	0.427		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3875	0.116		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1091	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0736	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0192	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	335.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74791 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.98	0.685		3,11				P
LIVER	12.53	4.336	TEETH	GROSS: FRACTURE				P
KIDNEYS	2.12	0.734		UPPER INCISOR, BILATERAL				
SPLEEN	0.69	0.239	NO SIGNIFICANT					
UTERUS/CX/OD	1.11	0.384	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
THYMUS	0.2245	0.078		CECUM	COLON	DUODENUM	ESOPHAGUS	
OVARIES	0.1287	0.045		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
ADRENAL GLANDS	0.0732	0.025		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PITUITARY	0.0172	0.006		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
FINAL BODY WT(G)	289.			PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74793 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.05	0.614		8,9	P
LIVER	12.69	3.799	LIVER	GROSS: AREA(S), DARK RED	P
KIDNEYS	2.37	0.710		MULTIPLE, IRREGULARLY SHAPED, MEDIAN LOBE	
SPLEEN	0.73	0.219	LIVER	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
UTERUS/CX/OD	0.73	0.219		NO CORRELATE TO GROSS RED AREA	
THYMUS	0.3305	0.099	LUNGS	GROSS: AREA(S), WHITE	P
OVARIES	0.1206	0.036		MULTIPLE, PINPOINT, ALL LOBES	
ADRENAL GLANDS	0.0808	0.024	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
PITUITARY	0.0170	0.005		CORRELATES TO GROSS WHITE AREAS	
FINAL BODY WT(G)	334.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LYMPH NODE, MES MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:LIVER	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74795 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.03	0.540		9,8	P
LIVER	18.93	5.035	LYMPH NODE, MED	GROSS: ENLARGED	P
KIDNEYS	2.62	0.697	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID	1
SPLEEN	0.62	0.165		CORRELATES TO GROSS ENLARGEMENT	
UTERUS/CX/OD	0.57	0.152	LUNGS	GROSS: AREA(S), WHITE	P
THYMUS	0.3859	0.103		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
OVARIES	0.1157	0.031	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
ADRENAL GLANDS	0.1006	0.027		CORRELATES TO GROSS WHITE AREAS	
PITUITARY	0.0240	0.006		INFILTRATE, MONONUCLEAR, SUBPLEURAL	1
FINAL BODY WT(G)	376.			CORRELATES TO GROSS WHITE AREAS	
				HEMORRHAGE	1
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	COLON
				EYES/OPTIC N.	HEART
				KIDNEYS	LIVER
				NERVE, SCIATIC	OVIDUCTS
				PITUITARY	RECTUM
				STOMACH	SKELETAL MUSCLE
				THYROID GLANDS	THYMUS
				UTERUS	VAGINA
					DUODENUM
					ILEUM
					LYMPH NODE, MES
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					BRAIN
					ESOPHAGUS
					JEJUNUM
					MAMMARY GLAND
					PANCREAS
					SAL. GLAND MAND
					SPLEEN
					URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74799 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.90	0.571		8,7				
LIVER	14.58	4.378	NO SIGNIFICANT					
KIDNEYS	2.16	0.649	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.72	0.216		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.67	0.201		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2909	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1146	0.034		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0948	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0226	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	333.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74801 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.95	0.621		9,7				
LIVER	14.60	4.650	NO SIGNIFICANT					
KIDNEYS	2.24	0.713	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.81	0.258		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.76	0.242		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3959	0.126		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1300	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0924	0.029		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0208	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	314.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74806 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.667		6,9				
LIVER	11.00	3.630	NO SIGNIFICANT					
KIDNEYS	1.92	0.634	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.201		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.79	0.261		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3034	0.100		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1099	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0879	0.029		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0186	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	303.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74818 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.96	0.590		0,0	
LIVER	12.15	3.660	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.07	0.623	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
SPLEEN	0.50	0.151		BILATERAL	
UTERUS/CX/OD	1.07	0.322	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
THYMUS	0.1662	0.050		CORRELATES TO GROSS RED DISCOLORATION	
OVARIES	0.0642	0.019		HYPERPLASIA, LYMPHOID	1
ADRENAL GLANDS	0.0816	0.025	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0287	0.009	LUNGS	GROSS: AREA(S), WHITE	P
FINAL BODY WT(G)	332.			MULTIPLE, 2 TO 1 MM IN DIAMETER, ALL LOBES	
			LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
				CORRELATES TO GROSS WHITE AREAS	
				MACROPHAGES, ALVEOLAR	1
				CORRELATES TO GROSS WHITE AREAS	
			OVARIES	MICRO: CYST	1
				DECREASED CORPORA LUTEA	4
				BILATERAL	
			THYMUS	GROSS: DISCOLORATION, DARK RED	P
			THYMUS	MICRO: HEMORRHAGE	2
				CORRELATES TO GROSS RED DISCOLORATION	
			UTERUS	MICRO: METAPLASIA, SQUAMOUS	2
				BILATERAL	
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74818 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

-----  
NO SIGNIFICANT  
CHANGES OBSERVED GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN  
CECUM COLON DUODENUM ESOPHAGUS  
EYES/OPTIC N. HEART ILEUM JEJUNUM  
KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND  
NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS  
PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND  
STOMACH SKELETAL MUSCLE SKIN SPLEEN  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS  
VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS  
OVIDUCTS PITUITARY SPLEEN VAGINA  
CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74820 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.07	0.704		9,7	P
LIVER	13.18	4.483	LIVER	GROSS: AREA(S), DARK RED	P
KIDNEYS	2.11	0.718		FEW, IRREGULARLY SHAPED, MEDIAN AND LEFT LOBES	
SPLEEN	0.68	0.231	LIVER	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
UTERUS/CX/OD	0.66	0.224		NO CORRELATE TO GROSS RED AREA	
THYMUS	0.2709	0.092	NO SIGNIFICANT		
OVARIES	0.1308	0.044	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0936	0.032		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0143	0.005		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	294.			KIDNEYS LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	
				MICRO:LIVER	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74821 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.99	0.640		6,6				
LIVER	13.56	4.360	NO SIGNIFICANT					
KIDNEYS	2.20	0.707	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.59	0.190		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.22	0.392		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2255	0.073		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1116	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0740	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0190	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	311.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74830 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.676		7,10				
LIVER	12.37	4.310	NO SIGNIFICANT					
KIDNEYS	2.07	0.721	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.47	0.164		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.74	0.258		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2524	0.088		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1022	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0795	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0223	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	287.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74831 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.98	0.538		7,13				P
LIVER	14.82	4.027	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED				P
KIDNEYS	2.77	0.753		BILATERAL				
SPLEEN	0.79	0.215	LYMPH NODE, MAND	MICRO: HEMORRHAGE				3
UTERUS/CX/OD	1.14	0.310		CORRELATES TO GROSS RED DISCOLORATION				
THYMUS	0.2591	0.070		HYPERPLASIA, LYMPHOID				1
OVARIES	0.1163	0.032		PLASMACYTOSIS				2
ADRENAL GLANDS	0.0853	0.023	NO SIGNIFICANT					
PITUITARY	0.0211	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
FINAL BODY WT(G)	368.			CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74834 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.11	0.645		8,6	
LIVER	13.77	4.211	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
KIDNEYS	2.16	0.661		BILATERAL	
SPLEEN	0.65	0.199	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
UTERUS/CX/OD	1.05	0.321		CORRELATES TO GROSS RED DISCOLORATION	
THYMUS	0.3149	0.096		HYPERPLASIA, LYMPHOID	1
OVARIES	0.1040	0.032	LIVER	GROSS: AREA(S), DARK RED	P
ADRENAL GLANDS	0.0765	0.023		ONE, 3 MM IN DIAMETER, MEDIAN LOBE	
PITUITARY	0.0215	0.007	LIVER	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	327.			NO CORRELATE TO GROSS RED AREA	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	
			MICRO:LIVER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74847 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.04	0.716		9,6					P
LIVER	10.45	3.667	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	2.21	0.775		BILATERAL					
SPLEEN	0.44	0.154	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
UTERUS/CX/OD	0.65	0.228		CORRELATES TO GROSS RED DISCOLORATION					
THYMUS	0.2493	0.087		HYPERPLASIA, LYMPHOID					1
OVARIES	0.1449	0.051	NO SIGNIFICANT						
ADRENAL GLANDS	0.0618	0.022	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0180	0.006		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	285.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74848 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.07	0.641		6,8				
LIVER	12.93	4.003	NO SIGNIFICANT					
KIDNEYS	2.09	0.647	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.211		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.59	0.183		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2155	0.067		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1004	0.031		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0502	0.016		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0185	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	323.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74849 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.84	0.652		7,8	
LIVER	12.50	4.433	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
KIDNEYS	2.02	0.716		BILATERAL	
SPLEEN	0.67	0.238	LYMPH NODE, MAND	GROSS: ENLARGED	P
UTERUS/CX/OD	0.62	0.220		BILATERAL	
THYMUS	0.1933	0.069	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
OVARIES	0.1144	0.041		CORRELATES TO GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.0942	0.033		HYPERPLASIA, LYMPHOID	1
PITUITARY	0.0139	0.005		CORRELATES TO GROSS ENLARGEMENT	
FINAL BODY WT(G)	282.			PLASMACYTOSIS	1
				CORRELATES TO GROSS ENLARGEMENT	

NO SIGNIFICANT

CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
	CECUM	COLON	DUODENUM	ESOPHAGUS
	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
	MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
	PANCREAS	PITUITARY	RECTUM	SPINAL CORD
	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
	SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
	URINARY BLADDER	UTERUS	VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74850 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.04	0.675		10,8	P
LIVER	12.10	4.007	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
KIDNEYS	2.36	0.781		BILATERAL	
SPLEEN	0.61	0.202	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
UTERUS/CX/OD	0.72	0.238		CORRELATES TO GROSS RED DISCOLORATION	
THYMUS	0.1459	0.048	NO SIGNIFICANT		
OVARIES	0.1314	0.044	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0759	0.025		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0199	0.007		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	302.			KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74855 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.01	0.589		8,8	
LIVER	14.30	4.194	LUNGS	GROSS: AREA(S), WHITE	P
KIDNEYS	2.35	0.689		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
SPLEEN	0.65	0.191	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
UTERUS/CX/OD	0.68	0.199		CORRELATES TO GROSS WHITE AREAS	
THYMUS	0.4152	0.122		MACROPHAGES, ALVEOLAR	1
OVARIES	0.1181	0.035		CORRELATES TO GROSS WHITE AREAS	
ADRENAL GLANDS	0.0964	0.028	SKIN	GROSS: MATTING, RED	P
PITUITARY	0.0200	0.006		OCULAR, BIATERAL	
FINAL BODY WT(G)	341.		SKIN	MICRO: CYST, KERATIN	2
				CORRELATES TO GROSS NODULE LISTED UNDER VAGINA	
			VAGINA	GROSS: NODULE(S)	P
				ONE, 5 X 5 X 3 MM	
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				NODULE OBSERVED GROSSLY IS IN SKIN, SUBCUTANEOUS TISSUE AND IS ADJACENT TO VAGINA	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SPLEEN THYROID GLANDS	
				THYMUS TRACHEA URINARY BLADDER UTERUS	
				CERVIX	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74855 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

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MICRO:VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74858 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.96	0.580		6,11				P
LIVER	14.96	4.426	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED				P
KIDNEYS	2.24	0.663		BILATERAL				
SPLEEN	0.52	0.154	LYMPH NODE, MAND	MICRO: HEMORRHAGE				3
UTERUS/CX/OD	0.62	0.183		CORRELATES TO GROSS RED DISCOLORATION				
THYMUS	0.2276	0.067		HYPERPLASIA, LYMPHOID				1
OVARIES	0.1210	0.036	NO SIGNIFICANT					
ADRENAL GLANDS	0.0916	0.027	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0176	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	338.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74865 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.93	0.527		1,0	
LIVER	12.05	3.292	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.23	0.609	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.71	0.194		MINERALIZATION, TUBULAR	1
UTERUS/CX/OD	0.76	0.208	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.4003	0.109	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.1120	0.031		CONSISTENT WITH METESTRUS	
ADRENAL GLANDS	0.0788	0.022	NO SIGNIFICANT		
PITUITARY	0.0179	0.005	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	366.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN THYMUS	
				UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74868 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.99	0.557		12,9	P
LIVER	14.62	4.095	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
KIDNEYS	2.27	0.636		BILATERAL	
SPLEEN	0.77	0.216	LYMPH NODE, MAND	GROSS: ENLARGED	P
UTERUS/CX/OD	0.58	0.162		BILATERAL	
THYMUS	0.4253	0.119	LYMPH NODE, MAND	MICRO: HEMORRHAGE	1
OVARIES	0.1454	0.041		CORRELATES TO GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.1030	0.029		HYPERPLASIA, LYMPHOID	1
PITUITARY	0.0233	0.007		CORRELATES TO GROSS ENLARGEMENT	
FINAL BODY WT(G)	357.			PLASMACYTOSIS	1
				CORRELATES TO GROSS ENLARGEMENT	

NO SIGNIFICANT

CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
	CECUM	COLON	DUODENUM	ESOPHAGUS
	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
	MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
	PANCREAS	PITUITARY	RECTUM	SPINAL CORD
	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
	SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
	URINARY BLADDER	UTERUS	VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74871 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.08	0.689		7,7	P
LIVER	11.60	3.841	LUNGS	GROSS: AREA(S), DARK RED	P
KIDNEYS	2.34	0.775		ONE, IRREGULARLY SHAPED, LEFT LOBE	
SPLEEN	0.73	0.242	LUNGS	MICRO: HEMORRHAGE	2
UTERUS/CX/OD	1.73	0.573		CORRELATES TO GROSS RED AREA	
THYMUS	0.2696	0.089		INFILTRATE, MONONUCLEAR, PERIVASCULAR	1
OVARIES	0.1302	0.043	UTERUS	GROSS: CONTENTS, CLEAR FLUID	P
ADRENAL GLANDS	0.0980	0.032		BOTH HORNS	
PITUITARY	0.0290	0.010	NO SIGNIFICANT		
FINAL BODY WT(G)	302.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74747 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.20	0.705		10,11				
LIVER	11.70	3.750	NO SIGNIFICANT					
KIDNEYS	2.56	0.821	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.192		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.65	0.208		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3836	0.123		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1598	0.051		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0913	0.029		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0240	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	312.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74750 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.06	0.675		0,0	P
LIVER	11.89	3.898	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.13	0.698	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
SPLEEN	0.53	0.174		BILATERAL	
UTERUS/CX/OD	0.72	0.236	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
THYMUS	0.2673	0.088		CORRELATES TO GROSS RED DISCOLORATION	
OVARIES	0.1076	0.035		HYPERPLASIA, LYMPHOID	1
ADRENAL GLANDS	0.0757	0.025	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0178	0.006	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	305.			CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS	
				OVIDUCTS OVARIES PITUITARY SPLEEN	
				THYMUS UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74751 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.04	0.689		8,8	P
LIVER	12.14	4.101	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.12	0.716	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.73	0.247	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
UTERUS/CX/OD	1.18	0.399		BILATERAL	
THYMUS	0.2824	0.095	LYMPH NODE, MAND	MICRO: HEMORRHAGE	3
OVARIES	0.1181	0.040		CORRELATES TO GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.0928	0.031		HYPERPLASIA, LYMPHOID	1
PITUITARY	0.0210	0.007	THYMUS	MICRO: HEMORRHAGE	1
FINAL BODY WT(G)	296.		EAR(S)	GROSS: SWOLLEN	P
				BILATERAL	
			EAR(S)	MICRO: CHONDROPATHY, AURICULAR	3
				CORRELATES TO GROSS SWOLLEN	
			UTERUS	MICRO: DILATATION, LUMEN	2
				IMPLANTATION SITE	P
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH ESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	NERVE, SCIATIC
				PANCREAS	PITUITARY
				SAL. GLAND MAND	STOMACH
				SPLEEN	THYROID GLANDS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
					BRAIN
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					RECTUM
					SKELETAL MUSCLE
					SKIN
					TRACHEA
					CERVIX
					LIVER

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74751 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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OVIDUCTS  
VAGINA

OVARIES  
CERVIX

PITUITARY

SPLEEN

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74754 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P	
BRAIN	1.91	0.635		7,10		
LIVER	11.79	3.917	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P	
KIDNEYS	2.11	0.701	KIDNEYS	MICRO: DILATATION, TUBULAR	1	
SPLEEN	0.64	0.213		BASOPHILIC TUBULES	1	
UTERUS/CX/OD	0.57	0.189	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1	
THYMUS	0.2263	0.075	OVARIES	MICRO: MINERALIZATION	1	
OVARIES	0.1127	0.037	THYMUS	MICRO: HEMORRHAGE	1	
ADRENAL GLANDS	0.0738	0.025	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED		
PITUITARY	0.0184	0.006		CONSISTENT WITH DIESTRUS		
FINAL BODY WT(G)	301.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA CECUM COLON EYES/OPTIC N. HEART KIDNEYS LIVER MAMMARY GLAND NERVE, SCIATIC PANCREAS PITUITARY SAL. GLAND MAND STOMACH SPLEEN THYROID GLANDS URINARY BLADDER UTERUS MICRO:ADRENAL CORTEX ADRENAL MEDULLA PITUITARY SPLEEN CERVIX UTERUS	STERNEBRAE DUODENUM ILEUM LYMPH NODE, MES OVIDUCTS RECTUM SKELETAL MUSCLE THYMUS VAGINA BRAIN UTERUS	BRAIN ESOPHAGUS JEJUNUM LUNGS OVARIES SPINAL CORD SKIN TRACHEA CERVIX OVIDUCTS VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74755 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.606		5,8				
LIVER	12.75	3.984	NO SIGNIFICANT					
KIDNEYS	2.14	0.669	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.62	0.194		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.58	0.181		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3105	0.097		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1249	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0712	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	320.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74768 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.98	0.593		4,11	
LIVER	12.97	3.883	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.29	0.686	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
SPLEEN	0.77	0.231		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.67	0.201	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
THYMUS	0.2156	0.065		BILATERAL	
OVARIES	0.1296	0.039	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
ADRENAL GLANDS	0.0806	0.024		CORRELATES TO GROSS RED DISCOLORATION	
PITUITARY	0.0178	0.005		HYPERPLASIA, LYMPHOID	1
FINAL BODY WT(G)	334.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			SPLEEN	GROSS: CYST(S)	P
				FEW, PINPOINT TO 1 MM IN DIAMETER	
			SPLEEN	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				COULD NOT CONFIRM GROSS CYST	
			THYMUS	MICRO: HEMORRHAGE	1
			EAR(S)	GROSS: SWOLLEN	P
				BILATERAL	
			EAR(S)	MICRO: CHONDROPATHY, AURICULAR	3
				CORRELATES TO GROSS SWOLLEN	
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH DIESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS CECUM EYES/OPTIC N. KIDNEYS MAMMARY GLAND	AORTA COLON HEART LIVER NERVE, SCIATIC
				STERNEBRAE DUODENUM ILEUM LYMPH NODE, MES OVIDUCTS	BRAIN ESOPHAGUS JEJUNUM LUNGS OVARIES

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74768 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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PANCREAS PITUITARY RECTUM SPINAL CORD  
SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN  
THYROID GLANDS THYMUS TRACHEA URINARY BLADDER  
UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS  
OVARIES PITUITARY SPLEEN UTERUS  
VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74769 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.14	0.611		8,10				
LIVER	14.22	4.063	NO SIGNIFICANT					
KIDNEYS	2.59	0.740	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
UTERUS/CX/OD	0.66	0.189		CECUM	COLON	DUODENUM	ESOPHAGUS	
THYMUS	0.2691	0.077		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
OVARIES	0.1452	0.041		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
ADRENAL GLANDS	0.1019	0.029		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
PITUITARY	0.0177	0.005		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
FINAL BODY WT(G)	350.			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74770 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.03	0.588		9,6	
LIVER	14.16	4.104	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.47	0.716	KIDNEYS	MICRO: MINERALIZATION, PELVIC	1
SPLEEN	0.66	0.191		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.66	0.191	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.2798	0.081	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1387	0.040	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0767	0.022		CONSISTENT WITH METESTRUS	
PITUITARY	0.0207	0.006	NO SIGNIFICANT		
FINAL BODY WT(G)	345.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74781 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.98	0.593		0,0	
LIVER	15.17	4.542	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.44	0.731	KIDNEYS	MICRO: MINERALIZATION, PELVIC	1
SPLEEN	0.58	0.174		HYPERPLASIA, TRANSITIONAL CELL	1
UTERUS/CX/OD	0.88	0.263	OVARIES	MICRO: DECREASED CORPORA LUTEA	4
THYMUS	0.2769	0.083		BILATERAL	
OVARIES	0.0807	0.024		CYST	1
ADRENAL GLANDS	0.0861	0.026	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0238	0.007	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	334.			CONSISTENT WITH METESTRUS	

NO SIGNIFICANT CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	UTERUS	VAGINA	CERVIX
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER
OVIDUCTS	PITUITARY	SPLEEN	UTERUS
VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74784 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.04	0.716		0,5					P
LIVER	10.11	3.547	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	1.81	0.635		BILATERAL					
SPLEEN	0.54	0.189	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
UTERUS/CX/OD	0.59	0.207		CORRELATES TO GROSS RED DISCOLORATION					
THYMUS	0.3593	0.126		HYPERPLASIA, LYMPHOID					1
OVARIES	0.1078	0.038	NO SIGNIFICANT						
ADRENAL GLANDS	0.0748	0.026	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0171	0.006		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	285.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74786 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.615		11,5				
LIVER	13.37	4.285	NO SIGNIFICANT					
KIDNEYS	2.24	0.718	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.176		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.62	0.199		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2771	0.089		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1137	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0634	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0146	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	312.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74787 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.95	0.661		7,8				
LIVER	12.08	4.095	NO SIGNIFICANT					
KIDNEYS	2.15	0.729	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.224		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.61	0.207		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3232	0.110		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1199	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0965	0.033		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0129	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	295.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74792 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.07	0.651		12,5				
LIVER	14.81	4.657	NO SIGNIFICANT					
KIDNEYS	2.35	0.739	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.72	0.226		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.57	0.179		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2491	0.078		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1161	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0755	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0136	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	318.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74800 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.08	0.693		1,0	P
LIVER	10.81	3.603	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.18	0.727	KIDNEYS	GROSS: AREA(S), DEPRESSED	P
SPLEEN	0.57	0.190		ONE, 1 MM IN DIAMETER, IN CORTEX, RIGHT	
UTERUS/CX/OD	0.70	0.233	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
THYMUS	0.1717	0.057		NO CORRELATE TO GROSS DEPRESSED AREA	
OVARIES	0.1101	0.037	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0589	0.020	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0187	0.006		CONSISTENT WITH DIESTRUS	
FINAL BODY WT(G)	300.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN THYMUS UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74803 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.01	0.668		7,9	
LIVER	11.73	3.897	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.12	0.704	LYMPH NODE, MED	GROSS: ENLARGED	P
SPLEEN	0.89	0.296	LYMPH NODE, MED	MICRO: HYPERPLASIA, LYMPHOID	1
UTERUS/CX/OD	0.80	0.266		CORRELATES TO GROSS ENLARGEMENT	
THYMUS	0.2062	0.069	KIDNEYS	GROSS: AREA(S), RAISED	P
OVARIES	0.1575	0.052		ONE, 2 X 2 X 1 MM, IN CORTEX, LEFT	
ADRENAL GLANDS	0.0754	0.025	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	2
PITUITARY	0.0235	0.008		BASOPHILIC TUBULES	1
FINAL BODY WT(G)	301.			FIBROSIS, CORTICAL	1
				UNDERLIES A DEPRESSED AREA ON SURFACE	
				INFLAMMATION, SUPPURATIVE	2
				FOCAL; SEGMENTAL; CORRELATES TO GROSS RAISED AREA	
				HYPERPLASIA, TRANSITIONAL CELL	1
				UNILATERAL IN KIDNEY WITH SUPPURATIVE INFLAMMATION	
			LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
				BILATERAL	
			LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
				CORRELATES TO GROSS RED DISCOLORATION	
				HYPERPLASIA, LYMPHOID	1
			LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
				VACUOLATION, CYTOPLASMIC	1
			OVARIES	MICRO: CYST	2
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74803 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
GRADE

-----  
NO SIGNIFICANT  
CHANGES OBSERVED GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN  
CECUM COLON DUODENUM ESOPHAGUS  
EYES/OPTIC N. HEART ILEUM JEJUNUM  
LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS  
PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND  
STOMACH SKELETAL MUSCLE SKIN SPLEEN  
THYROID GLANDS THYMUS TRACHEA URINARY BLADDER  
UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS  
PITUITARY SPLEEN THYMUS UTERUS  
VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74807 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.13	0.614		5,9	
LIVER	12.99	3.744	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.32	0.669	KIDNEYS	MICRO: MINERALIZATION, TUBULAR FIBROSIS	1
SPLEEN	0.77	0.222		FOCAL SEGMENT; MEDULLA DILATATION, TUBULAR	2
UTERUS/CX/OD	0.73	0.210			
THYMUS	0.3076	0.089			1
OVARIES	0.1409	0.041	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0959	0.028	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0305	0.009	UTERUS	MICRO: IMPLANTATION SITE	P
FINAL BODY WT(G)	347.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH EARLY DIESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74811 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.84	0.544		8,7				P
LIVER	13.00	3.846	TEETH	GROSS: MALALIGNED				P
KIDNEYS	2.39	0.707		UPPER INCISOR, BILATERAL				
SPLEEN	0.54	0.160	NO SIGNIFICANT					
UTERUS/CX/OD	1.15	0.340	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
THYMUS	0.2363	0.070		CECUM	COLON	DUODENUM	ESOPHAGUS	
OVARIES	0.1221	0.036		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
ADRENAL GLANDS	0.0761	0.023		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PITUITARY	0.0191	0.006		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
FINAL BODY WT(G)	338.			PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74813 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.97	0.659		5,10	P
LIVER	11.94	3.993	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.14	0.716	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.52	0.174	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.51	0.171	PITUITARY	MICRO: CYST, PARS INTERMEDIA	1
THYMUS	0.2192	0.073	SKIN	GROSS: MATTING, RED	P
OVARIES	0.1003	0.034		OCULAR, RIGHT	
ADRENAL GLANDS	0.0826	0.028	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0233	0.008	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	299.			CONSISTENT WITH METESTRUS	
			TEETH	GROSS: MALALIGNED	P
				UPPER INCISOR, BILATERAL	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	COLON
				EYES/OPTIC N.	DUODENUM
				KIDNEYS	ILEUM
				MAMMARY GLAND	LYMPH NODE, MES
				PANCREAS	LUNGS
				SAL. GLAND MAND	OVARIES
				THYROID GLANDS	RECTUM
				UTERUS	SPINAL CORD
				MICRO:ADRENAL CORTEX	SKELETAL MUSCLE
				OVARIES	SPLEEN
				CERVIX	TRACHEA
					URINARY BLADDER
					CERVIX
					BRAIN
					UTERUS
					OVIDUCTS
					VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74817 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.12	0.646		5,12				
LIVER	12.24	3.732	NO SIGNIFICANT					
KIDNEYS	2.15	0.655	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.62	0.189		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.60	0.183		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2583	0.079		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1184	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0802	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0171	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	328.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74822 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)			
BRAIN	2.08	0.596		8,9			P
LIVER	14.52	4.160	KIDNEYS	GROSS: AREA(S), WHITE			P
KIDNEYS	2.64	0.756		FEW, IRREGULARLY SHAPED, IN CORTEX, RIGHT			
SPLEEN	0.97	0.278	KIDNEYS	MICRO: INFLAMMATION, PYOGRANULOMATOUS			3
UTERUS/CX/OD	0.60	0.172		FOCAL; CORRELATES TO GROSS WHITE AREA			
THYMUS	0.1885	0.054		INFLAMMATION, SUBACUTE			2
OVARIES	0.1180	0.034		AROUND URINARY SPACE			
ADRENAL GLANDS	0.0731	0.021		HYPERPLASIA, TRANSITIONAL CELL			1
PITUITARY	0.0218	0.006	NO SIGNIFICANT				
FINAL BODY WT(G)	349.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
				CECUM	COLON	DUODENUM	ESOPHAGUS
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
				LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER
				UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74827 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.00	0.613		4,12				P
LIVER	11.60	3.558	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
KIDNEYS	2.37	0.727		TWO, 2 MM IN DIAMETER, IN CORTEX, RIGHT				
SPLEEN	0.61	0.187	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
UTERUS/CX/OD	1.16	0.356		BENEATH SURFACE DEPRESSION; CORRELATES TO GROSS DEPRESSED				
THYMUS	0.5649	0.173		AREA				
OVARIES	0.1129	0.035	NO SIGNIFICANT					
ADRENAL GLANDS	0.1086	0.033	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0150	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	326.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74832 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.96	0.669		7,9	P
LIVER	12.14	4.143	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.00	0.683	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.63	0.215	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
UTERUS/CX/OD	0.72	0.246		BILATERAL	
THYMUS	0.2280	0.078	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
OVARIES	0.1178	0.040		CORRELATES TO GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.0643	0.022		HYPERPLASIA, LYMPHOID	1
PITUITARY	0.0162	0.006		PLASMACYTOSIS	2
FINAL BODY WT(G)	293.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	COLON
				EYES/OPTIC N.	HEART
				KIDNEYS	LIVER
				MAMMARY GLAND	NERVE, SCIATIC
				PANCREAS	PITUITARY
				SAL. GLAND MAND	STOMACH
				SPLEEN	THYROID GLANDS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				OVARIES	PITUITARY
				VAGINA	CERVIX
					BRAIN
					SPLEEN
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					OVIDUCTS
					UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74833 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/14/02 DATE OF DEATH: 01/14/02 STUDY DAY: 132  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.10	0.634		10,6				
LIVER	14.04	4.242	NO SIGNIFICANT					
KIDNEYS	2.53	0.764	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.57	0.172		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.59	0.178		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2455	0.074		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1222	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0730	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	331.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74836 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.01	0.630		6,9	P
LIVER	12.82	4.019	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.08	0.652	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
SPLEEN	0.52	0.163		BILATERAL	
UTERUS/CX/OD	0.51	0.160	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
THYMUS	0.2009	0.063		CORRELATES TO GROSS RED DISCOLORATION	
OVARIES	0.1165	0.037		HYPERPLASIA, LYMPHOID	1
ADRENAL GLANDS	0.0819	0.026	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0176	0.006	THYMUS	MICRO: HEMORRHAGE	2
FINAL BODY WT(G)	319.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED		
			GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE
			CECUM	COLON	DUODENUM
			EYES/OPTIC N.	HEART	ILEUM
			KIDNEYS	LIVER	LYMPH NODE, MES
			MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS
			PANCREAS	PITUITARY	RECTUM
			SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE
			SPLEEN	THYROID GLANDS	THYMUS
			URINARY BLADDER	UTERUS	VAGINA
			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN
			OVIDUCTS	OVARIES	PITUITARY
			UTERUS	VAGINA	CERVIX
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					KIDNEYS
					SPLEEN

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74853 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.01	0.613		10,9				
LIVER	13.83	4.216	NO SIGNIFICANT					
KIDNEYS	2.63	0.802	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.75	0.229		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.00	0.305		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3649	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1399	0.043		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0922	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0217	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	328.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74857 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/10/02 DATE OF DEATH: 01/10/02 STUDY DAY: 128  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.97	0.573		10,8				
LIVER	14.95	4.346	NO SIGNIFICANT					
KIDNEYS	2.13	0.619	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.192		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.66	0.192		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3188	0.093		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1543	0.045		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0797	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0184	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	344.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74860 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.97	0.619		8,5				
LIVER	14.25	4.481	NO SIGNIFICANT					
KIDNEYS	2.19	0.689	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.189		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.73	0.230		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2781	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1090	0.034		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0693	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0164	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	318.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74862 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.00	0.725		8,6				P
LIVER	12.04	4.362	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS				P
KIDNEYS	2.46	0.891	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED				P
SPLEEN	0.51	0.185		BILATERAL				
UTERUS/CX/OD	0.81	0.293	LYMPH NODE, MAND	MICRO: HEMORRHAGE				2
THYMUS	0.2737	0.099		CORRELATES TO GROSS RED DISCOLORATION				
OVARIES	0.0962	0.035		HYPERPLASIA, LYMPHOID				1
ADRENAL GLANDS	0.0859	0.031	LUNGS	GROSS: AREA(S), WHITE				P
PITUITARY	0.0254	0.009		MULTIPLE, PINPOINT, ALL LOBES				
FINAL BODY WT(G)	276.		LUNGS	MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR				1
				MACROPHAGES, ALVEOLAR				1
				CORRELATES TO GROSS WHITE AREAS				
			THYMUS	MICRO: HEMORRHAGE				1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
				CONSISTENT WITH METESTRUS				
			NO SIGNIFICANT					
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				LIVER	OVIDUCTS	OVARIES	PITUITARY	
				SPLEEN	UTERUS	VAGINA	CERVIX	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74862 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74866 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/15/02 DATE OF DEATH: 01/15/02 STUDY DAY: 133  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.96	0.570		7,11				
LIVER	12.34	3.587	NO SIGNIFICANT					
KIDNEYS	2.15	0.625	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.177		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.85	0.247		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2186	0.064		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1227	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0741	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0168	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	344.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 161 (F0 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO. 74870 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/11/02 DATE OF DEATH: 01/11/02 STUDY DAY: 129  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.03	0.588		2,9				
LIVER	14.55	4.217	NO SIGNIFICANT					
KIDNEYS	2.68	0.777	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.191		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.70	0.203		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3315	0.096		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1298	0.038		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.1102	0.032		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0218	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	345.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PGRHv4.41  
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				0 PPM
DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES	
74737	14	14	0	
74740	14	14	0	
74757	17	16	1	
74759	13	13	0	
74764	16	16	0	
74767	17	16	1	
74772	15	14	1	
74773	18	16	2	
74774	15	15	0	
74789	14	14	0	
74804	19	16	3	
74808	18	15	3	
74810	17	17	0	
74826	13	12	1	
74829	18	17	1	
74840	4	3	1	
74841	14	14	0	
74844	14	7	7	
74845	14	12	2	
74854	17	14	3	
74864	17	17	0	
74867	14	14	0	
MEAN	15.1	13.9	1.2	
S.D.	3.08	3.29	1.68	
N	22	22	22	

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 162 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL IMPLANTATION SITES

500 PPM

DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74742	20	18	2
74746	15	15	0
74753	17	15	2
74761	16	16	0
74762	14	13	1
74765	3	3	0
74782	15	14	1
74785	17	15	2
74790	17	17	0
74796	17	15	2
74797	16	13	3
74798	14	14	0
74802	16	16	0
74805	16	12	4-A
74809	14	13	1
74812	15	15	0
74816	18	16	2
74819	14	13	1
74823	16	16	0
74824	18	14	4
74835	15	14	1
74838	17	17	0
74839	18	18	0
74846	14	14	0
74856	17	17	0
74859	14	14	0
74861	5	5	0
74863	15	13	2
74869	11	10	1
MEAN	15.0	14.0	0.9
S.D.	3.52	3.31	1.10
N	29	29	28

A = FEMALE NO. 74805 DELIVERED 12 PUPS, AND WAS EUTHANIZED IN EXTREMIS WITH 4 PUPS IN UTERO; NOT INCLUDED IN CALCULATION OF MEAN  
 NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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1000 PPM

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DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74738	15	14	1
74739	18	15	3
74743	14	13	1
74744	16	16	0
74748	11	11	0
74752	16	16	0
74766	16	16	0
74780	12	12	0
74791	14	13	1
74793	17	17	0
74795	17	17	0
74799	15	15	0
74801	16	15	1
74806	15	15	0
74820	16	15	1
74821	12	9	3
74830	17	15	2
74831	20	20	0
74834	14	13	1
74847	15	15	0
74848	14	11	3
74849	15	14	1
74850	18	16	2
74855	16	16	0
74858	17	17	0
74868	21	21	0
74871	14	14	0
MEAN	15.6	14.9	0.7
S.D.	2.24	2.55	1.02
N	27	27	27

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 162 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL IMPLANTATION SITES

2500 PPM

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DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74747	21	21	0
74751	16	14	2
74754	17	16	1
74755	13	12	1
74768	15	14	1
74769	18	17	1
74770	15	14	1
74784	5	5	0
74786	16	15	1
74787	15	15	0
74792	17	16	1
74803	16	15	1
74807	14	14	0
74811	15	15	0
74813	15	14	1
74817	17	14	3
74822	17	16	1
74827	16	16	0
74832	16	16	0
74833	16	15	1
74836	15	15	0
74853	19	17	2
74857	18	16	2
74860	13	13	0
74862	14	14	0
74866	18	16	2
74870	11	11	0
MEAN	15.5	14.7	0.8
S.D.	2.91	2.66	0.83
N	27	27	27

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74602	515.	2.00	15.85	3.50	0.63	2.35	0.96	1.55
74603	456.	2.01	16.18	2.99	0.53	2.08	0.96	1.72
74610	499.	2.25	17.04	3.45	0.81	2.42	1.14	1.83
74614	515.	2.09	15.79	3.38	0.83	2.22	1.09	1.94
74616	539.	2.08	17.36	3.48	0.47	1.91	1.19	1.41
74620	550.	1.98	19.73	4.14	0.82	1.81	1.07	1.91
74627	605.	2.19	20.54	3.81	0.88	2.77	1.29	1.83
74630	594.	2.09	17.18	3.61	0.84	2.26	1.37	1.95
74632	510.	2.04	16.59	3.66	0.92	2.10	0.66	1.99
74633	551.	2.15	17.53	3.81	0.84	2.67	1.02	1.91
74636	479.	2.11	14.58	3.27	0.83	1.85	1.25	1.82
74644	530.	2.05	18.44	3.79	0.71	2.58	0.85	1.76
74645	545.	2.19	19.44	3.81	0.74	2.49	1.06	1.62
74648	556.	2.08	16.59	3.81	0.71	2.96	1.61	1.91
74656	568.	2.20	20.93	3.48	0.89	2.54	0.75	1.56
74660	555.	2.13	17.72	3.90	0.74	1.90	0.91	1.85
74664	408.	1.92	11.48	2.86	0.70	2.05	0.75	1.82
74665	571.	2.29	18.92	3.94	1.04	1.98	1.45	2.15
74669	472.	1.97	13.78	3.54	0.72	1.72	1.35	1.91
74677	585.	2.26	20.79	3.91	0.90	2.54	1.21	2.04
74681	575.	2.28	16.50	3.49	0.61	2.48	0.97	1.65
74682	468.	2.03	13.39	3.15	0.64	1.83	0.64	1.68
74686	556.	2.07	18.83	3.83	0.81	2.94	1.17	1.84
74696	573.	2.26	18.78	3.59	0.88	2.34	1.04	1.86
74698	648.	2.01	20.77	4.17	0.97	2.79	1.57	1.80
74700	461.	2.11	14.15	2.94	0.64	2.27	1.40	2.05

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74701	446.	1.91	14.59	2.71	0.65	1.83	0.93	1.86
74707	582.	2.19	20.05	4.21	0.86	2.21	1.47	1.91
74711	545.	2.18	18.44	3.99	0.97	2.87	1.22	1.79
74724	564.	2.25	18.65	3.90	0.92	2.27	1.16	1.78
MEAN	534.	2.11	17.35	3.60	0.78	2.30	1.12	1.82
S.D.	53.9	0.109	2.430	0.389	0.136	0.364	0.256	0.159
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74601	485.	1.90	15.01	2.95	0.66	2.20	0.83	1.62
74604	550.	2.12	19.26	4.29	0.82	2.27	1.26	1.95
74605	534.	2.26	18.72	3.65	0.77	2.51	1.08	1.65
74609	554.	2.06	18.46	4.16	0.72	2.55	1.08	1.93
74612	620.	2.01	20.88	3.82	0.80	2.29	1.20	1.69
74613	620.	2.09	18.90	3.87	0.76	1.61	1.39	2.02
74621	410.	2.10	13.11	3.05	0.62	2.66	1.28	1.76
74625	521.	1.98	16.50	3.35	0.58	1.83	1.36	1.60
74626	574.	2.15	20.30	4.02	1.09	2.44	1.23	1.89
74634	559.	2.15	18.69	3.37	0.85	2.44	1.35	2.12
74641	558.	2.10	19.29	3.09	0.75	2.18	0.86	1.74
74642	565.	2.17	19.51	4.34	0.69	1.96	1.51	1.83
74655	519.	2.11	15.43	3.61	0.79	2.71	1.58	1.94
74662	499.	2.13	16.16	3.09	0.79	2.38	1.04	1.85
74666	487.	2.11	13.48	3.01	0.63	1.80	1.17	1.07
74667	631.	2.25	21.80	3.92	0.92	2.11	1.51	2.06
74671	473.	2.09	14.53	3.46	0.69	2.18	1.01	1.73
74673	588.	2.25	18.06	4.29	0.79	2.61	1.57	1.79
74676	582.	2.18	20.37	3.58	0.82	2.35	1.40	2.15
74685	527.	2.13	19.12	4.29	0.78	2.37	1.30	1.81
74689	495.	2.00	15.81	3.82	0.67	2.51	1.40	1.70
74690	518.	2.26	18.49	3.41	0.91	2.39	1.12	NA
74704	467.	2.05	17.71	3.79	0.73	1.94	1.28	1.77
74708	500.	2.02	15.57	3.46	0.73	2.44	1.40	1.83
74709	505.	1.97	15.94	3.24	0.75	1.98	1.41	2.04
74712	542.	2.06	16.59	3.38	0.69	2.11	1.32	1.66

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74715	500.	2.07	15.25	3.43	0.74	1.62	1.00	1.43
74722	511.	2.04	16.11	3.62	0.61	2.01	1.48	1.72
74729	544.	2.14	19.21	3.88	0.91	1.57	1.10	1.77
74733	490.	2.23	16.25	3.67	0.73	2.38	1.14	1.82
MEAN	531.	2.11	17.48	3.63	0.76	2.21	1.26	1.79
S.D.	49.5	0.091	2.236	0.408	0.106	0.316	0.199	0.215
N	30	30	30	30	30	30	30	29

FBW = FINAL BODY WEIGHT  
 NA = NOT APPLICABLE

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74606	584.	2.13	19.31	3.73	0.78	2.05	1.06	1.72
74607	521.	2.06	16.76	3.54	0.75	2.33	1.19	1.73
74608	492.	2.05	18.48	3.81	0.82	2.49	1.08	1.79
74611	518.	2.20	19.19	3.22	0.87	2.24	1.28	1.87
74615	546.	2.08	19.69	3.27	0.85	2.59	1.36	1.64
74617	490.	2.25	15.93	3.73	0.69	2.12	1.28	1.71
74618	522.	2.24	17.95	3.46	0.68	2.25	1.18	1.68
74619	476.	2.04	16.42	3.64	0.70	2.07	1.05	1.64
74622	531.	2.09	16.04	4.09	0.69	2.60	1.65	1.80
74638	515.	2.23	16.69	3.96	0.79	3.23	1.52	1.98
74639	567.	2.21	19.06	4.09	0.74	2.38	1.56	2.00
74650	527.	2.18	16.75	3.98	0.77	2.86	1.39	1.93
74661	505.	2.07	17.15	3.58	0.63	2.61	1.03	1.83
74668	561.	2.15	18.19	3.40	0.74	1.69	1.06	1.67
74670	512.	2.19	17.67	3.91	0.81	2.45	1.58	1.92
74674	499.	2.08	16.23	3.40	0.76	2.26	1.55	1.84
74675	488.	2.04	13.44	3.22	0.71	2.06	1.26	1.73
74679	459.	2.05	13.56	3.38	0.48	2.41	1.32	1.71
74683	576.	2.05	19.29	3.84	0.82	2.36	1.33	1.90
74684	497.	2.11	14.79	3.32	0.81	2.05	1.55	1.80
74691	484.	2.18	16.14	3.09	0.51	1.95	1.53	1.66
74693	582.	2.01	20.71	3.94	0.88	2.15	1.72	1.82
74699	662.	2.17	22.78	4.27	0.87	2.24	0.97	1.86
74706	581.	2.17	19.01	3.59	0.77	2.45	1.15	0.54
74710	486.	2.12	15.90	3.56	0.85	2.08	1.19	1.77
74717	454.	1.95	15.05	3.26	0.66	2.22	1.19	1.78

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74719	546.	2.10	18.26	4.37	0.73	2.52	1.56	1.60
74727	553.	2.25	19.37	3.64	0.85	2.59	1.60	1.83
74734	549.	2.14	17.04	3.46	0.61	2.66	1.13	1.83
74735	502.	2.05	18.15	3.71	0.72	2.47	1.90	1.75
MEAN	526.	2.12	17.50	3.65	0.74	2.35	1.34	1.74
S.D.	44.7	0.078	2.055	0.328	0.099	0.301	0.240	0.249
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74624	471.	1.92	13.28	3.09	0.64	2.48	1.04	1.76
74628	479.	2.16	14.67	3.15	0.75	2.47	1.25	1.90
74629	488.	2.00	16.89	3.51	0.67	2.21	1.01	1.58
74631	507.	2.10	16.28	3.68	0.85	2.11	1.03	1.86
74635	538.	1.94	18.42	3.65	0.86	2.10	1.35	1.85
74640	517.	2.11	16.92	3.81	0.69	2.09	1.06	1.86
74643	558.	2.15	22.29	4.14	0.97	2.64	1.57	1.83
74646	607.	2.36	19.51	4.28	0.87	2.36	1.19	1.75
74647	606.	2.11	20.37	3.97	0.83	2.51	1.32	1.96
74649	542.	2.24	15.38	3.37	0.73	2.11	1.13	1.99
74652	524.	2.06	17.75	3.79	0.76	2.11	1.22	1.90
74653	515.	2.17	17.59	3.32	0.81	1.72	0.93	1.99
74658	465.	1.93	13.07	2.59	0.76	1.63	0.90	1.71
74659	502.	2.00	15.43	3.21	0.73	2.02	1.22	1.84
74663	458.	2.16	13.18	3.05	0.63	1.84	1.20	1.65
74680	574.	2.21	16.14	3.89	0.81	2.11	1.32	1.88
74688	627.	2.26	22.67	4.25	0.82	1.80	0.93	1.81
74692	460.	2.11	14.27	3.15	0.64	2.14	1.26	1.81
74695	617.	2.38	23.26	5.41	0.85	2.74	1.58	2.08
74697	512.	2.18	17.21	3.73	0.81	3.07	1.49	1.83
74702	494.	2.22	14.81	3.61	0.66	1.91	1.28	1.66
74703	516.	2.13	15.61	4.04	1.01	2.07	1.67	1.95
74705	517.	1.98	15.66	3.39	0.76	1.62	1.31	1.76
74713	616.	2.18	19.72	4.14	0.59	2.56	0.86	2.10
74718	580.	2.13	19.26	3.65	0.80	1.92	1.43	1.92
74720	550.	1.97	17.55	3.48	0.69	2.01	0.90	1.74

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74723	590.	2.16	18.96	3.89	0.68	2.02	1.61	1.99
74725	520.	2.11	21.02	4.26	0.95	2.34	0.82	1.95
74726	553.	2.15	17.28	4.51	0.81	2.77	1.60	1.72
74728	630.	2.17	20.09	4.38	0.79	1.66	1.81	1.78
MEAN	538.	2.13	17.48	3.75	0.77	2.17	1.24	1.85
S.D.	52.6	0.114	2.798	0.555	0.103	0.361	0.267	0.125
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

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ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74602	1.63	0.64	0.73	0.2562	0.3642	0.1835	0.0496	0.0202
74603	1.66	0.74	0.70	0.3138	0.3384	0.0891	0.0490	0.0110
74610	1.76	0.74	0.75	0.3204	0.3488	0.2110	0.0651	0.0183
74614	1.92	0.73	0.76	0.3177	0.3482	0.2409	0.0718	0.0166
74616	1.42	0.73	0.69	0.3553	0.3573	0.1169	0.0682	0.0129
74620	1.87	0.81	0.89	0.3402	0.4049	0.2349	0.0676	0.0163
74627	1.86	0.72	0.70	0.3077	0.2436	0.2068	0.0599	0.0187
74630	1.89	0.81	0.72	0.3433	0.3345	0.2173	0.0540	0.0191
74632	2.01	0.74	0.84	0.3182	0.3441	0.1645	0.0664	0.0163
74633	1.92	0.76	0.68	0.3307	0.2673	0.2198	0.0568	0.0203
74636	1.80	0.67	0.70	0.3009	0.3287	0.2331	0.0538	0.0125
74644	1.80	0.62	0.69	0.2584	0.3411	0.2172	0.0606	0.0145
74645	1.82	0.66	0.66	0.2793	0.3343	0.2739	0.0832	0.0153
74648	1.97	0.79	0.78	0.3511	0.3908	0.2184	0.0630	0.0171
74656	1.37	0.53	0.50	0.1539	0.1915	0.3633	0.0576	0.0171
74660	1.82	0.74	0.74	0.3152	0.3289	0.3579	0.0522	0.0187
74664	1.82	0.68	0.71	0.2142	0.3339	0.1862	0.0537	0.0174
74665	2.11	0.75	0.79	0.3106	0.2960	0.2465	0.0837	0.0179
74669	1.87	0.71	0.75	0.3210	0.3652	0.2910	0.0746	0.0155
74677	2.07	0.78	0.74	0.2796	0.3134	0.1759	0.0622	0.0161
74681	1.79	0.80	0.75	0.3175	0.3249	0.1761	0.0482	0.0120
74682	1.71	0.71	0.67	0.2994	0.2983	0.1061	0.0519	0.0133
74686	1.86	0.86	0.78	0.3143	0.3584	0.2775	0.0537	0.0168
74696	1.89	0.80	0.80	0.3127	0.3351	0.2269	0.0522	0.0151
74698	1.79	0.73	0.77	0.2636	0.3189	0.2266	0.0697	0.0177
74700	2.04	0.79	0.75	0.3190	0.3553	0.1048	0.0478	0.0123

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TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74701	2.00	0.71	0.73	0.2657	0.3286	0.1461	0.0485	0.0167
74707	1.95	0.83	0.73	0.3831	0.2857	0.1747	0.0499	0.0147
74711	1.82	0.83	0.79	0.3760	0.3403	0.2011	0.0745	0.0160
74724	1.72	0.76	0.87	0.3259	0.3970	0.2839	0.0913	0.0165
MEAN	1.83	0.74	0.74	0.3055	0.3306	0.2124	0.0614	0.0161
S.D.	0.165	0.070	0.071	0.04601	0.04346	0.06601	0.01174	0.00240
N	30	30	30	30	30	30	30	30

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TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

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ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74601	1.66	0.63	0.64	0.2194	0.3138	0.1684	0.0494	0.0140
74604	1.91	0.80	0.73	0.3699	0.3582	0.2417	0.0843	0.0174
74605	1.67	0.64	0.65	0.2708	0.2979	0.2711	0.0639	0.0177
74609	1.90	0.75	0.78	0.2811	0.3702	0.1182	0.0655	0.0165
74612	1.75	0.69	0.74	0.2601	0.2772	0.2414	0.0547	0.0158
74613	1.95	0.88	0.82	0.3132	0.3515	0.2222	0.0614	0.0163
74621	1.79	0.70	0.72	0.2859	0.3326	0.2008	0.0550	0.0131
74625	1.60	0.72	0.82	0.3325	0.3904	0.2455	0.0528	0.0131
74626	1.90	0.71	0.68	0.3001	0.2915	0.3601	0.0621	0.0195
74634	1.99	0.70	0.68	0.3080	0.3380	0.1889	0.0530	0.0147
74641	1.66	0.70	0.72	0.2546	0.3251	0.2402	0.0577	0.0127
74642	1.81	0.62	0.64	0.2591	0.3079	0.2383	0.0601	0.0162
74655	1.88	0.79	0.61	0.3413	0.2240	0.2879	0.0666	0.0183
74662	1.82	0.77	0.75	0.3188	0.3690	0.2615	0.0530	0.0153
74666	1.09	0.46	0.46	0.1988	0.2059	0.1799	0.0587	0.0137
74667	2.01	0.77	0.77	0.3549	0.3649	0.1827	0.0589	0.0211
74671	1.75	0.74	0.61	0.2905	0.2740	0.2198	0.0712	0.0170
74673	1.77	0.74	0.71	0.3448	0.2621	0.1626	0.0734	0.0189
74676	2.20	0.76	0.76	0.2806	0.3714	0.2271	0.0541	0.0146
74685	1.82	0.83	0.71	0.3820	0.3220	0.2150	0.0688	0.0129
74689	1.71	0.69	0.63	0.3334	0.3052	0.1968	0.0537	0.0140
74690	1.77	0.77	0.70	0.2841	0.2928	0.2253	0.0666	0.0129
74704	1.76	0.69	0.76	0.3175	0.3237	0.1398	0.0681	0.0124
74708	1.91	0.76	0.74	0.2976	0.3383	0.2141	0.0551	0.0129
74709	2.20	0.77	0.84	0.3362	0.4105	0.2125	0.0730	0.0155
74712	1.71	0.64	0.62	0.3103	0.3357	0.2892	0.0439	0.0148

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74715	1.42	0.63	0.67	0.2938	0.3360	0.1688	0.0629	0.0167
74722	1.74	0.72	0.84	0.3417	0.3870	0.1608	0.0684	0.0131
74729	1.77	0.74	0.82	0.2854	0.3737	0.3917	0.0817	0.0111
74733	1.84	0.70	0.70	0.3158	0.3285	0.1390	0.0682	0.0187
MEAN	1.79	0.72	0.71	0.3027	0.3260	0.2204	0.0622	0.0154
S.D.	0.207	0.078	0.083	0.04112	0.04731	0.06036	0.00928	0.00246
N	30	30	30	30	30	30	30	30

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

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ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74606	1.80	0.65	0.73	0.2504	0.3042	0.2057	0.0636	0.0138
74607	1.86	0.80	0.75	0.2552	0.3303	0.1930	0.0541	0.0185
74608	1.74	0.75	0.59	0.2787	0.2847	0.2143	0.0661	0.0125
74611	1.87	0.75	0.80	0.2991	0.3252	0.2202	0.0743	0.0130
74615	1.64	0.67	0.69	0.2412	0.2950	0.1929	0.0687	0.0110
74617	1.77	0.81	0.75	0.2729	0.3106	0.1643	0.0680	0.0169
74618	1.79	0.75	0.76	0.3342	0.3384	0.2426	0.0564	0.0232
74619	1.68	0.63	0.69	0.2741	0.3291	0.2236	0.0664	0.0137
74622	1.77	0.68	0.69	0.3111	0.3287	0.1836	0.0690	0.0169
74638	1.89	0.87	0.82	0.3835	0.3972	0.2207	0.0760	0.0188
74639	2.00	0.92	0.83	0.3886	0.4046	0.1942	0.0727	0.0152
74650	1.92	0.78	0.77	0.3781	0.4042	0.2230	0.0599	0.0148
74661	1.81	0.78	0.70	0.3144	0.2833	0.1834	0.0736	0.0152
74668	1.73	0.69	0.70	0.3079	0.3399	0.2333	0.0618	0.0134
74670	1.92	0.63	0.74	0.2714	0.2708	0.1446	0.0789	0.0136
74674	1.88	0.70	0.72	0.3461	0.3336	0.2025	0.0670	0.0161
74675	1.67	0.74	0.74	0.2843	0.3350	0.1620	0.0524	0.0129
74679	1.73	0.72	0.71	0.2698	0.3383	0.1337	0.0547	0.0127
74683	1.94	0.73	0.75	0.3157	0.3062	0.3102	0.0663	0.0125
74684	1.84	0.73	0.75	0.2797	0.3550	0.2164	0.0587	0.0136
74691	1.69	0.68	0.64	0.3091	0.2742	0.2215	0.0531	0.0154
74693	1.99	0.63	0.65	0.3080	0.2706	0.1363	0.0612	0.0151
74699	1.91	0.81	0.76	0.3785	0.3827	0.3196	0.0839	0.0162
74706	1.92	0.49	0.78	0.1430	0.2876	0.3138	0.0580	0.0144
74710	1.79	0.71	0.66	0.3093	0.2916	0.2108	0.0519	0.0091
74717	1.79	0.63	0.68	0.3114	0.3047	0.1941	0.0620	0.0151

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74719	1.61	0.74	0.64	0.2794	0.2830	0.1750	0.0544	0.0168
74727	1.76	0.59	0.51	0.2137	0.1730	0.2837	0.0668	0.0176
74734	1.85	0.73	0.75	0.2616	0.2987	0.2433	0.0727	0.0149
74735	1.73	0.74	0.71	0.3187	0.3241	0.2944	0.0707	0.0171
MEAN	1.81	0.72	0.72	0.2963	0.3168	0.2152	0.0648	0.0150
S.D.	0.102	0.085	0.067	0.05169	0.04664	0.04974	0.00844	0.00266
N	30	30	30	30	30	30	30	30

TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

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ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74624	1.79	0.66	0.70	0.2522	0.2886	0.2051	0.0520	0.0097
74628	1.91	0.46	0.63	0.2376	0.2350	0.2022	0.0904	0.0136
74629	1.54	0.76	0.66	0.2748	0.3191	0.1640	0.0621	0.0133
74631	1.85	0.67	0.74	0.3132	0.3675	0.1807	0.0690	0.0147
74635	1.83	0.65	0.65	0.2891	0.2862	0.1483	0.0697	0.0150
74640	1.86	0.71	0.64	0.2798	0.2650	0.1727	0.0534	0.0146
74643	1.93	0.66	0.73	0.3465	0.3063	0.2460	0.0778	0.0128
74646	1.78	0.72	0.69	0.2986	0.3160	0.1885	0.0682	0.0207
74647	1.91	0.79	0.67	0.3047	0.3244	0.3548	0.0493	0.0165
74649	1.87	0.73	0.71	0.2930	0.3386	0.1994	0.0647	0.0136
74652	1.90	0.66	0.75	0.2837	0.3575	0.3942	0.0585	0.0091
74653	2.09	0.77	0.80	0.3150	0.3512	0.1906	0.0676	0.0164
74658	1.73	0.70	0.64	0.2515	0.3107	0.2240	0.0563	0.0152
74659	1.90	0.71	0.70	0.2882	0.3259	0.1333	0.0566	0.0149
74663	1.66	0.70	0.68	0.2896	0.3264	0.2194	0.0520	0.0128
74680	1.85	0.77	0.71	0.3301	0.3462	0.3046	0.0529	0.0171
74688	1.87	0.74	0.68	0.2494	0.2391	0.1553	0.0585	0.0137
74692	1.86	0.63	0.59	0.2818	0.2515	0.1901	0.0540	0.0170
74695	2.10	0.87	0.79	0.3250	0.2896	0.1849	0.0691	0.0198
74697	1.81	0.75	0.77	0.3504	0.3729	0.1482	0.0854	0.0167
74702	1.66	0.68	0.68	0.2575	0.2788	0.1955	0.0553	0.0098
74703	2.03	0.76	0.78	0.3701	0.3414	0.1957	0.0688	0.0165
74705	1.76	0.69	0.67	0.2927	0.2940	0.1531	0.0625	0.0150
74713	2.17	0.83	0.79	0.2394	0.3516	0.2617	0.0766	0.0160
74718	1.94	0.79	0.81	0.3415	0.3557	0.1767	0.0558	0.0137
74720	1.67	0.65	0.78	0.3276	0.3772	0.2216	0.0635	0.0138

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TABLE 163 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74723	1.89	0.85	0.74	0.3725	0.3685	0.1971	0.0679	0.0169
74725	1.94	0.79	0.73	0.2853	0.3188	0.2586	0.0579	0.0152
74726	1.74	0.71	0.72	0.3406	0.3099	0.1953	0.0863	0.0143
74728	1.78	0.74	0.82	0.3068	0.3636	0.2696	0.0660	0.0149
MEAN	1.85	0.72	0.72	0.2996	0.3192	0.2110	0.0643	0.0148
S.D.	0.137	0.078	0.060	0.03709	0.03987	0.05936	0.01076	0.00255
N	30	30	30	30	30	30	30	30

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TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74737	308.	1.94	11.95	2.31	0.56	0.44	0.2073	0.1259	0.0767	0.0271
74740	290.	2.02	11.92	2.23	0.65	0.76	0.2771	0.1072	0.0737	0.0203
74745	351.	1.99	17.37	2.38	0.56	0.93	0.2264	0.0669	0.0811	0.0308
74749	307.	1.89	11.35	2.07	0.61	1.60	0.2116	0.0867	0.0547	0.0154
74756	340.	2.07	18.65	2.41	0.68	1.34	0.1750	0.0640	0.0888	0.0410
74757	313.	1.93	11.76	2.25	0.77	1.02	0.3079	0.1318	0.0885	0.0244
74759	275.	1.95	11.84	1.87	0.55	0.55	0.3333	0.1112	0.0582	0.0112
74764	325.	1.93	13.34	2.33	0.60	0.55	0.2814	0.1171	0.0802	0.0224
74767	297.	1.96	13.77	2.07	0.58	0.98	0.2007	0.1202	0.0692	0.0224
74772	336.	2.11	14.81	2.14	0.67	0.82	0.1941	0.1398	0.0875	0.0193
74773	365.	2.10	14.09	2.23	1.00	0.68	0.4026	0.1267	0.0805	0.0196
74774	329.	1.94	11.36	2.14	0.58	1.10	0.2385	0.0916	0.0640	0.0165
74779	326.	1.93	12.87	2.08	0.57	0.63	0.2076	0.0938	0.0733	0.0208
74789	290.	1.98	14.19	2.27	0.65	0.77	0.2447	0.1078	0.0856	0.0177
74794	352.	1.98	13.77	2.34	0.66	0.57	0.2356	0.0944	0.0718	0.0215
74804	296.	1.90	10.53	2.06	0.55	0.78	0.3104	0.1337	0.0906	0.0194
74808	350.	2.08	13.03	2.59	0.57	0.92	0.2843	0.1770	0.0974	0.0241
74810	333.	1.98	15.29	2.73	0.70	0.58	0.2173	0.1118	0.0748	0.0161
74815	343.	2.03	13.92	2.40	0.56	0.88	0.1757	0.0638	0.0760	0.0445
74826	308.	1.99	12.29	2.20	0.55	0.58	0.2893	0.1192	0.0921	0.0149
74828	308.	1.95	11.60	1.80	0.47	0.66	0.2237	0.0967	0.0727	0.0172
74829	317.	2.08	11.87	2.03	0.75	0.79	0.2392	0.1275	0.0664	0.0281
74840	322.	2.09	15.04	2.17	0.54	0.80	0.2427	0.1266	0.0697	0.0164
74841	278.	1.97	9.87	2.15	0.50	0.58	0.3475	0.1052	0.0824	0.0216
74842	343.	2.07	16.04	2.45	0.51	0.93	0.3064	0.0561	0.0770	0.0290
74844	316.	1.96	15.46	2.74	0.59	1.01	0.2648	0.1121	0.0928	0.0199

TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74845	338.	1.93	13.77	2.07	0.61	0.77	0.2887	0.1210	0.0759	0.0227
74854	315.	1.95	13.45	2.38	0.67	0.71	0.2327	0.1246	0.0787	0.0216
74864	339.	1.86	14.86	2.33	0.52	0.49	0.2122	0.1008	0.0819	0.0137
74867	322.	1.89	12.65	2.19	0.66	1.00	0.3434	0.0949	0.0732	0.0165
MEAN	321.	1.98	13.42	2.25	0.61	0.81	0.2574	0.1085	0.0778	0.0219
S.D.	22.7	0.069	1.974	0.215	0.102	0.253	0.05556	0.02558	0.01008	0.00730
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74742	307.	2.02	13.45	2.54	0.55	0.55	0.2786	0.1193	0.0814	0.0176
74746	323.	2.10	13.36	2.35	0.60	0.90	0.1824	0.1039	0.0991	0.0213
74753	340.	1.99	13.01	2.11	0.66	0.83	0.3603	0.1309	0.0873	0.0208
74761	317.	1.97	15.09	2.24	0.63	0.73	0.2210	0.0955	0.0743	0.0178
74762	267.	2.02	12.27	2.06	0.44	0.56	0.4007	0.1116	0.0874	0.0187
74765	310.	1.92	10.90	1.85	0.68	0.61	0.3575	0.1030	0.0656	0.0194
74782	333.	2.01	12.13	2.40	0.74	0.65	0.4491	0.1269	0.0909	0.0124
74785	347.	1.88	13.77	2.10	0.53	0.91	0.2512	0.1073	0.0682	0.0178
74790	341.	2.00	12.69	1.99	0.72	0.85	0.3836	0.1008	0.0892	0.0192
74796	343.	1.93	15.12	2.14	0.53	0.56	0.3337	0.1131	0.0736	0.0262
74797	308.	1.84	13.88	2.25	0.68	0.63	0.3022	0.1069	0.0793	0.0170
74798	320.	2.01	14.00	2.30	0.71	0.56	0.2214	0.0997	0.0697	0.0172
74802	313.	2.00	15.00	2.22	0.70	0.91	0.4846	0.1112	0.0859	0.0248
74809	294.	2.02	12.63	2.22	0.56	0.57	0.2770	0.0896	0.0763	0.0164
74812	328.	1.95	12.93	1.95	0.66	0.58	0.2741	0.1138	0.0769	0.0121
74816	335.	2.04	13.42	2.27	0.56	0.65	0.3455	0.1321	0.0763	0.0194
74819	335.	2.21	13.97	2.51	0.68	0.52	0.2647	0.1258	0.0801	0.0195
74823	345.	2.05	17.65	2.59	0.64	1.02	0.3014	0.1442	0.0844	0.0156
74824	312.	1.93	14.68	2.15	0.54	0.59	0.3158	0.1138	0.0851	0.0170
74835	266.	1.87	10.04	2.10	0.51	0.67	0.2146	0.1269	0.0757	0.0152
74838	336.	2.06	12.35	2.52	0.87	0.68	0.3078	0.1238	0.0867	0.0192
74839	327.	2.08	17.42	2.78	0.76	0.64	0.4289	0.1377	0.0913	0.0191
74846	321.	1.96	13.78	2.19	0.52	0.60	0.3209	0.0968	0.0648	0.0156
74856	322.	2.06	13.84	2.49	0.64	0.61	0.3216	0.1363	0.0770	0.0202
74859	323.	1.96	14.63	3.43	0.68	0.68	0.1818	0.1339	0.1096	0.0166
74861	321.	1.93	12.01	2.20	0.50	0.95	0.1860	0.1330	0.0868	0.0188

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 4

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74863	333.	2.00	13.82	2.22	0.70	1.16	0.2685	0.1214	0.0894	0.0185
74869	290.	2.02	11.37	2.22	0.66	1.06	0.1674	0.1073	0.0651	0.0193
74873	352.	1.99	13.61	2.40	0.62	0.98	0.2636	0.0984	0.0661	0.0209
MEAN	321.	1.99	13.55	2.30	0.63	0.73	0.2988	0.1160	0.0808	0.0184
S.D.	21.3	0.075	1.645	0.299	0.094	0.182	0.08174	0.01477	0.01062	0.00297
N	29	29	29	29	29	29	29	29	29	29

FBW = FINAL BODY WEIGHT

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TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 1000 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74738	301.	1.97	14.60	2.35	0.59	0.47	0.1657	0.0849	0.0782	0.0233
74739	313.	1.94	13.32	2.32	0.60	1.02	0.2920	0.1257	0.0790	0.0220
74743	326.	2.09	12.00	2.29	0.64	1.15	0.2762	0.1196	0.0755	0.0130
74744	283.	1.94	12.26	2.26	0.52	0.79	0.2613	0.1188	0.0690	0.0148
74748	335.	2.09	13.14	2.27	0.74	0.88	0.2624	0.1344	0.0730	0.0189
74752	318.	1.92	13.47	2.39	0.51	0.72	0.1620	0.1102	0.0721	0.0185
74766	283.	2.11	10.29	1.90	0.61	0.77	0.3851	0.1371	0.0905	0.0185
74777	387.	2.06	14.60	2.34	0.65	0.56	0.3540	0.0726	0.0746	0.0188
74780	335.	2.02	12.00	1.99	0.60	1.43	0.3875	0.1091	0.0736	0.0192
74791	289.	1.98	12.53	2.12	0.69	1.11	0.2245	0.1287	0.0732	0.0172
74793	334.	2.05	12.69	2.37	0.73	0.73	0.3305	0.1206	0.0808	0.0170
74795	376.	2.03	18.93	2.62	0.62	0.57	0.3859	0.1157	0.1006	0.0240
74799	333.	1.90	14.58	2.16	0.72	0.67	0.2909	0.1146	0.0948	0.0226
74801	314.	1.95	14.60	2.24	0.81	0.76	0.3959	0.1300	0.0924	0.0208
74806	303.	2.02	11.00	1.92	0.61	0.79	0.3034	0.1099	0.0879	0.0186
74818	332.	1.96	12.15	2.07	0.50	1.07	0.1662	0.0642	0.0816	0.0287
74820	294.	2.07	13.18	2.11	0.68	0.66	0.2709	0.1308	0.0936	0.0143
74821	311.	1.99	13.56	2.20	0.59	1.22	0.2255	0.1116	0.0740	0.0190
74830	287.	1.94	12.37	2.07	0.47	0.74	0.2524	0.1022	0.0795	0.0223
74831	368.	1.98	14.82	2.77	0.79	1.14	0.2591	0.1163	0.0853	0.0211
74834	327.	2.11	13.77	2.16	0.65	1.05	0.3149	0.1040	0.0765	0.0215
74847	285.	2.04	10.45	2.21	0.44	0.65	0.2493	0.1449	0.0618	0.0180
74848	323.	2.07	12.93	2.09	0.68	0.59	0.2155	0.1004	0.0502	0.0185
74849	282.	1.84	12.50	2.02	0.67	0.62	0.1933	0.1144	0.0942	0.0139
74850	302.	2.04	12.10	2.36	0.61	0.72	0.1459	0.1314	0.0759	0.0199
74855	341.	2.01	14.30	2.35	0.65	0.68	0.4152	0.1181	0.0964	0.0200

TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74858	338.	1.96	14.96	2.24	0.52	0.62	0.2276	0.1210	0.0916	0.0176
74865	366.	1.93	12.05	2.23	0.71	0.76	0.4003	0.1120	0.0788	0.0179
74868	357.	1.99	14.62	2.27	0.77	0.58	0.4253	0.1454	0.1030	0.0233
74871	302.	2.08	11.60	2.34	0.73	1.73	0.2696	0.1302	0.0980	0.0290
MEAN	322.	2.00	13.18	2.23	0.64	0.84	0.2836	0.1160	0.0819	0.0197
S.D.	29.2	0.068	1.691	0.185	0.094	0.287	0.08141	0.01851	0.01204	0.00372
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 164 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74747	312.	2.20	11.70	2.56	0.60	0.65	0.3836	0.1598	0.0913	0.0240
74750	305.	2.06	11.89	2.13	0.53	0.72	0.2673	0.1076	0.0757	0.0178
74751	296.	2.04	12.14	2.12	0.73	1.18	0.2824	0.1181	0.0928	0.0210
74754	301.	1.91	11.79	2.11	0.64	0.57	0.2263	0.1127	0.0738	0.0184
74755	320.	1.94	12.75	2.14	0.62	0.58	0.3105	0.1249	0.0712	0.0172
74768	334.	1.98	12.97	2.29	0.77	0.67	0.2156	0.1296	0.0806	0.0178
74769	350.	2.14	14.22	2.59	2.59-A	0.66	0.2691	0.1452	0.1019	0.0177
74770	345.	2.03	14.16	2.47	0.66	0.66	0.2798	0.1387	0.0767	0.0207
74781	334.	1.98	15.17	2.44	0.58	0.88	0.2769	0.0807	0.0861	0.0238
74784	285.	2.04	10.11	1.81	0.54	0.59	0.3593	0.1078	0.0748	0.0171
74786	312.	1.92	13.37	2.24	0.55	0.62	0.2771	0.1137	0.0634	0.0146
74787	295.	1.95	12.08	2.15	0.66	0.61	0.3232	0.1199	0.0965	0.0129
74792	318.	2.07	14.81	2.35	0.72	0.57	0.2491	0.1161	0.0755	0.0136
74800	300.	2.08	10.81	2.18	0.57	0.70	0.1717	0.1101	0.0589	0.0187
74803	301.	2.01	11.73	2.12	0.89	0.80	0.2062	0.1575	0.0754	0.0235
74807	347.	2.13	12.99	2.32	0.77	0.73	0.3076	0.1409	0.0959	0.0305
74811	338.	1.84	13.00	2.39	0.54	1.15	0.2363	0.1221	0.0761	0.0191
74813	299.	1.97	11.94	2.14	0.52	0.51	0.2192	0.1003	0.0826	0.0233
74817	328.	2.12	12.24	2.15	0.62	0.60	0.2583	0.1184	0.0802	0.0171
74822	349.	2.08	14.52	2.64	0.97	0.60	0.1885	0.1180	0.0731	0.0218
74827	326.	2.00	11.60	2.37	0.61	1.16	0.5649	0.1129	0.1086	0.0150
74832	293.	1.96	12.14	2.00	0.63	0.72	0.2280	0.1178	0.0643	0.0162
74833	331.	2.10	14.04	2.53	0.57	0.59	0.2455	0.1222	0.0730	0.0172
74836	319.	2.01	12.82	2.08	0.52	0.51	0.2009	0.1165	0.0819	0.0176
74853	328.	2.01	13.83	2.63	0.75	1.00	0.3649	0.1399	0.0922	0.0217
74857	344.	1.97	14.95	2.13	0.66	0.66	0.3188	0.1543	0.0797	0.0184

A = OBVIOUS ERRONEOUS VALUE, NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 164 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74860	318.	1.97	14.25	2.19	0.60	0.73	0.2781	0.1090	0.0693	0.0164
74862	276.	2.00	12.04	2.46	0.51	0.81	0.2737	0.0962	0.0859	0.0254
74866	344.	1.96	12.34	2.15	0.61	0.85	0.2186	0.1227	0.0741	0.0168
74870	345.	2.03	14.55	2.68	0.66	0.70	0.3315	0.1298	0.1102	0.0218
MEAN	320.	2.02	12.90	2.29	0.64	0.73	0.2778	0.1221	0.0814	0.0192
S.D.	21.1	0.077	1.301	0.215	0.110	0.184	0.07585	0.01789	0.01265	0.00385
N	30	30	30	30	29	30	30	30	30	30

FBW = FINAL BODY WEIGHT

POFBWv4.12  
12/10/2002  
R:12/11/2002

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74602	515.	0.388	3.078	0.680	0.122	0.456	0.186	0.301
74603	456.	0.441	3.548	0.656	0.116	0.456	0.211	0.377
74610	499.	0.451	3.415	0.691	0.162	0.485	0.228	0.367
74614	515.	0.406	3.066	0.656	0.161	0.431	0.212	0.377
74616	539.	0.386	3.221	0.646	0.087	0.354	0.221	0.262
74620	550.	0.360	3.587	0.753	0.149	0.329	0.195	0.347
74627	605.	0.362	3.395	0.630	0.145	0.458	0.213	0.302
74630	594.	0.352	2.892	0.608	0.141	0.380	0.231	0.328
74632	510.	0.400	3.253	0.718	0.180	0.412	0.129	0.390
74633	551.	0.390	3.181	0.691	0.152	0.485	0.185	0.347
74636	479.	0.441	3.044	0.683	0.173	0.386	0.261	0.380
74644	530.	0.387	3.479	0.715	0.134	0.487	0.160	0.332
74645	545.	0.402	3.567	0.699	0.136	0.457	0.194	0.297
74648	556.	0.374	2.984	0.685	0.128	0.532	0.290	0.344
74656	568.	0.387	3.685	0.613	0.157	0.447	0.132	0.275
74660	555.	0.384	3.193	0.703	0.133	0.342	0.164	0.333
74664	408.	0.471	2.814	0.701	0.172	0.502	0.184	0.446
74665	571.	0.401	3.313	0.690	0.182	0.347	0.254	0.377
74669	472.	0.417	2.919	0.750	0.153	0.364	0.286	0.405
74677	585.	0.386	3.554	0.668	0.154	0.434	0.207	0.349
74681	575.	0.397	2.870	0.607	0.106	0.431	0.169	0.287
74682	468.	0.434	2.861	0.673	0.137	0.391	0.137	0.359
74686	556.	0.372	3.387	0.689	0.146	0.529	0.210	0.331
74696	573.	0.394	3.277	0.627	0.154	0.408	0.182	0.325
74698	648.	0.310	3.205	0.644	0.150	0.431	0.242	0.278
74700	461.	0.458	3.069	0.638	0.139	0.492	0.304	0.445

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74701	446.	0.428	3.271	0.608	0.146	0.410	0.209	0.417
74707	582.	0.376	3.445	0.723	0.148	0.380	0.253	0.328
74711	545.	0.400	3.383	0.732	0.178	0.527	0.224	0.328
74724	564.	0.399	3.307	0.691	0.163	0.402	0.206	0.316
MEAN	534.	0.398	3.242	0.676	0.147	0.432	0.209	0.345
S.D.	53.9	0.0339	0.2428	0.0415	0.0215	0.0577	0.0443	0.0471
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 3

MALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74601	485.	0.392	3.095	0.608	0.136	0.454	0.171	0.334
74604	550.	0.385	3.502	0.780	0.149	0.413	0.229	0.355
74605	534.	0.423	3.506	0.684	0.144	0.470	0.202	0.309
74609	554.	0.372	3.332	0.751	0.130	0.460	0.195	0.348
74612	620.	0.324	3.368	0.616	0.129	0.369	0.194	0.273
74613	620.	0.337	3.048	0.624	0.123	0.260	0.224	0.326
74621	410.	0.512	3.198	0.744	0.151	0.649	0.312	0.429
74625	521.	0.380	3.167	0.643	0.111	0.351	0.261	0.307
74626	574.	0.375	3.537	0.700	0.190	0.425	0.214	0.329
74634	559.	0.385	3.343	0.603	0.152	0.436	0.242	0.379
74641	558.	0.376	3.457	0.554	0.134	0.391	0.154	0.312
74642	565.	0.384	3.453	0.768	0.122	0.347	0.267	0.324
74655	519.	0.407	2.973	0.696	0.152	0.522	0.304	0.374
74662	499.	0.427	3.238	0.619	0.158	0.477	0.208	0.371
74666	487.	0.433	2.768	0.618	0.129	0.370	0.240	0.220
74667	631.	0.357	3.455	0.621	0.146	0.334	0.239	0.326
74671	473.	0.442	3.072	0.732	0.146	0.461	0.214	0.366
74673	588.	0.383	3.071	0.730	0.134	0.444	0.267	0.304
74676	582.	0.375	3.500	0.615	0.141	0.404	0.241	0.369
74685	527.	0.404	3.628	0.814	0.148	0.450	0.247	0.343
74689	495.	0.404	3.194	0.772	0.135	0.507	0.283	0.343
74690	518.	0.436	3.569	0.658	0.176	0.461	0.216	NA
74704	467.	0.439	3.792	0.812	0.156	0.415	0.274	0.379
74708	500.	0.404	3.114	0.692	0.146	0.488	0.280	0.366
74709	505.	0.390	3.156	0.642	0.149	0.392	0.279	0.404
74712	542.	0.380	3.061	0.624	0.127	0.389	0.244	0.306

PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74715	500.	0.414	3.050	0.686	0.148	0.324	0.200	0.286
74722	511.	0.399	3.153	0.708	0.119	0.393	0.290	0.337
74729	544.	0.393	3.531	0.713	0.167	0.289	0.202	0.325
74733	490.	0.455	3.316	0.749	0.149	0.486	0.233	0.371
MEAN	531.	0.400	3.288	0.686	0.143	0.421	0.238	0.338
S.D.	49.5	0.0367	0.2327	0.0691	0.0168	0.0768	0.0389	0.0417
N	30	30	30	30	30	30	30	29

FBW = FINAL BODY WEIGHT  
NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74606	584.	0.365	3.307	0.639	0.134	0.351	0.182	0.295
74607	521.	0.395	3.217	0.679	0.144	0.447	0.228	0.332
74608	492.	0.417	3.756	0.774	0.167	0.506	0.220	0.364
74611	518.	0.425	3.705	0.622	0.168	0.432	0.247	0.361
74615	546.	0.381	3.606	0.599	0.156	0.474	0.249	0.300
74617	490.	0.459	3.251	0.761	0.141	0.433	0.261	0.349
74618	522.	0.429	3.439	0.663	0.130	0.431	0.226	0.322
74619	476.	0.429	3.450	0.765	0.147	0.435	0.221	0.345
74622	531.	0.394	3.021	0.770	0.130	0.490	0.311	0.339
74638	515.	0.433	3.241	0.769	0.153	0.627	0.295	0.384
74639	567.	0.390	3.362	0.721	0.131	0.420	0.275	0.353
74650	527.	0.414	3.178	0.755	0.146	0.543	0.264	0.366
74661	505.	0.410	3.396	0.709	0.125	0.517	0.204	0.362
74668	561.	0.383	3.242	0.606	0.132	0.301	0.189	0.298
74670	512.	0.428	3.451	0.764	0.158	0.479	0.309	0.375
74674	499.	0.417	3.253	0.681	0.152	0.453	0.311	0.369
74675	488.	0.418	2.754	0.660	0.145	0.422	0.258	0.355
74679	459.	0.447	2.954	0.736	0.105	0.525	0.288	0.373
74683	576.	0.356	3.349	0.667	0.142	0.410	0.231	0.330
74684	497.	0.425	2.976	0.668	0.163	0.412	0.312	0.362
74691	484.	0.450	3.335	0.638	0.105	0.403	0.316	0.343
74693	582.	0.345	3.558	0.677	0.151	0.369	0.296	0.313
74699	662.	0.328	3.441	0.645	0.131	0.338	0.147	0.281
74706	581.	0.373	3.272	0.618	0.133	0.422	0.198	0.093
74710	486.	0.436	3.272	0.733	0.175	0.428	0.245	0.364
74717	454.	0.430	3.315	0.718	0.145	0.489	0.262	0.392

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74719	546.	0.385	3.344	0.800	0.134	0.462	0.286	0.293
74727	553.	0.407	3.503	0.658	0.154	0.468	0.289	0.331
74734	549.	0.390	3.104	0.630	0.111	0.485	0.206	0.333
74735	502.	0.408	3.616	0.739	0.143	0.492	0.378	0.349
MEAN	526.	0.406	3.322	0.695	0.142	0.449	0.257	0.334
S.D.	44.7	0.0315	0.2225	0.0587	0.0172	0.0648	0.0500	0.0538
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74624	471.	0.408	2.820	0.656	0.136	0.527	0.221	0.374
74628	479.	0.451	3.063	0.658	0.157	0.516	0.261	0.397
74629	488.	0.410	3.461	0.719	0.137	0.453	0.207	0.324
74631	507.	0.414	3.211	0.726	0.168	0.416	0.203	0.367
74635	538.	0.361	3.424	0.678	0.160	0.390	0.251	0.344
74640	517.	0.408	3.273	0.737	0.133	0.404	0.205	0.360
74643	558.	0.385	3.995	0.742	0.174	0.473	0.281	0.328
74646	607.	0.389	3.214	0.705	0.143	0.389	0.196	0.288
74647	606.	0.348	3.361	0.655	0.137	0.414	0.218	0.323
74649	542.	0.413	2.838	0.622	0.135	0.389	0.208	0.367
74652	524.	0.393	3.387	0.723	0.145	0.403	0.233	0.363
74653	515.	0.421	3.416	0.645	0.157	0.334	0.181	0.386
74658	465.	0.415	2.811	0.557	0.163	0.351	0.194	0.368
74659	502.	0.398	3.074	0.639	0.145	0.402	0.243	0.367
74663	458.	0.472	2.878	0.666	0.138	0.402	0.262	0.360
74680	574.	0.385	2.812	0.678	0.141	0.368	0.230	0.328
74688	627.	0.360	3.616	0.678	0.131	0.287	0.148	0.289
74692	460.	0.459	3.102	0.685	0.139	0.465	0.274	0.393
74695	617.	0.386	3.770	0.877	0.138	0.444	0.256	0.337
74697	512.	0.426	3.361	0.729	0.158	0.600	0.291	0.357
74702	494.	0.449	2.998	0.731	0.134	0.387	0.259	0.336
74703	516.	0.413	3.025	0.783	0.196	0.401	0.324	0.378
74705	517.	0.383	3.029	0.656	0.147	0.313	0.253	0.340
74713	616.	0.354	3.201	0.672	0.096	0.416	0.140	0.341
74718	580.	0.367	3.321	0.629	0.138	0.331	0.247	0.331
74720	550.	0.358	3.191	0.633	0.125	0.365	0.164	0.316

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74723	590.	0.366	3.214	0.659	0.115	0.342	0.273	0.337
74725	520.	0.406	4.042	0.819	0.183	0.450	0.158	0.375
74726	553.	0.389	3.125	0.816	0.146	0.501	0.289	0.311
74728	630.	0.344	3.189	0.695	0.125	0.263	0.287	0.283
MEAN	538.	0.398	3.241	0.696	0.145	0.407	0.232	0.346
S.D.	52.6	0.0332	0.3159	0.0663	0.0199	0.0726	0.0464	0.0303
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74602	0.317	0.124	0.142	0.050	0.071	0.036	0.010	0.004
74603	0.364	0.162	0.154	0.069	0.074	0.020	0.011	0.002
74610	0.353	0.148	0.150	0.064	0.070	0.042	0.013	0.004
74614	0.373	0.142	0.148	0.062	0.068	0.047	0.014	0.003
74616	0.263	0.135	0.128	0.066	0.066	0.022	0.013	0.002
74620	0.340	0.147	0.162	0.062	0.074	0.043	0.012	0.003
74627	0.307	0.119	0.116	0.051	0.040	0.034	0.010	0.003
74630	0.318	0.136	0.121	0.058	0.056	0.037	0.009	0.003
74632	0.394	0.145	0.165	0.062	0.067	0.032	0.013	0.003
74633	0.348	0.138	0.123	0.060	0.049	0.040	0.010	0.004
74636	0.376	0.140	0.146	0.063	0.069	0.049	0.011	0.003
74644	0.340	0.117	0.130	0.049	0.064	0.041	0.011	0.003
74645	0.334	0.121	0.121	0.051	0.061	0.050	0.015	0.003
74648	0.354	0.142	0.140	0.063	0.070	0.039	0.011	0.003
74656	0.241	0.093	0.088	0.027	0.034	0.064	0.010	0.003
74660	0.328	0.133	0.133	0.057	0.059	0.064	0.009	0.003
74664	0.446	0.167	0.174	0.053	0.082	0.046	0.013	0.004
74665	0.370	0.131	0.138	0.054	0.052	0.043	0.015	0.003
74669	0.396	0.150	0.159	0.068	0.077	0.062	0.016	0.003
74677	0.354	0.133	0.126	0.048	0.054	0.030	0.011	0.003
74681	0.311	0.139	0.130	0.055	0.057	0.031	0.008	0.002
74682	0.365	0.152	0.143	0.064	0.064	0.023	0.011	0.003
74686	0.335	0.155	0.140	0.057	0.064	0.050	0.010	0.003
74696	0.330	0.140	0.140	0.055	0.058	0.040	0.009	0.003
74698	0.276	0.113	0.119	0.041	0.049	0.035	0.011	0.003
74700	0.443	0.171	0.163	0.069	0.077	0.023	0.010	0.003

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 10

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74701	0.448	0.159	0.164	0.060	0.074	0.033	0.011	0.004
74707	0.335	0.143	0.125	0.066	0.049	0.030	0.009	0.003
74711	0.334	0.152	0.145	0.069	0.062	0.037	0.014	0.003
74724	0.305	0.135	0.154	0.058	0.070	0.050	0.016	0.003
MEAN	0.347	0.139	0.140	0.058	0.063	0.040	0.012	0.003
S.D.	0.0483	0.0167	0.0185	0.0091	0.0113	0.0116	0.0022	0.0005
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 11

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74601	0.342	0.130	0.132	0.045	0.065	0.035	0.010	0.003
74604	0.347	0.145	0.133	0.067	0.065	0.044	0.015	0.003
74605	0.313	0.120	0.122	0.051	0.056	0.051	0.012	0.003
74609	0.343	0.135	0.141	0.051	0.067	0.021	0.012	0.003
74612	0.282	0.111	0.119	0.042	0.045	0.039	0.009	0.003
74613	0.315	0.142	0.132	0.051	0.057	0.036	0.010	0.003
74621	0.437	0.171	0.176	0.070	0.081	0.049	0.013	0.003
74625	0.307	0.138	0.157	0.064	0.075	0.047	0.010	0.003
74626	0.331	0.124	0.118	0.052	0.051	0.063	0.011	0.003
74634	0.356	0.125	0.122	0.055	0.060	0.034	0.009	0.003
74641	0.297	0.125	0.129	0.046	0.058	0.043	0.010	0.002
74642	0.320	0.110	0.113	0.046	0.054	0.042	0.011	0.003
74655	0.362	0.152	0.118	0.066	0.043	0.055	0.013	0.004
74662	0.365	0.154	0.150	0.064	0.074	0.052	0.011	0.003
74666	0.224	0.094	0.094	0.041	0.042	0.037	0.012	0.003
74667	0.319	0.122	0.122	0.056	0.058	0.029	0.009	0.003
74671	0.370	0.156	0.129	0.061	0.058	0.046	0.015	0.004
74673	0.301	0.126	0.121	0.059	0.045	0.028	0.012	0.003
74676	0.378	0.131	0.131	0.048	0.064	0.039	0.009	0.003
74685	0.345	0.157	0.135	0.072	0.061	0.041	0.013	0.002
74689	0.345	0.139	0.127	0.067	0.062	0.040	0.011	0.003
74690	0.342	0.149	0.135	0.055	0.057	0.043	0.013	0.002
74704	0.377	0.148	0.163	0.068	0.069	0.030	0.015	0.003
74708	0.382	0.152	0.148	0.060	0.068	0.043	0.011	0.003
74709	0.436	0.152	0.166	0.067	0.081	0.042	0.014	0.003
74712	0.315	0.118	0.114	0.057	0.062	0.053	0.008	0.003

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 12

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74715	0.284	0.126	0.134	0.059	0.067	0.034	0.013	0.003
74722	0.341	0.141	0.164	0.067	0.076	0.031	0.013	0.003
74729	0.325	0.136	0.151	0.052	0.069	0.072	0.015	0.002
74733	0.376	0.143	0.143	0.064	0.067	0.028	0.014	0.004
MEAN	0.339	0.136	0.135	0.057	0.062	0.042	0.012	0.003
S.D.	0.0433	0.0168	0.0184	0.0089	0.0104	0.0109	0.0020	0.0005
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 13

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74606	0.308	0.111	0.125	0.043	0.052	0.035	0.011	0.002
74607	0.357	0.154	0.144	0.049	0.063	0.037	0.010	0.004
74608	0.354	0.152	0.120	0.057	0.058	0.044	0.013	0.003
74611	0.361	0.145	0.154	0.058	0.063	0.043	0.014	0.003
74615	0.300	0.123	0.126	0.044	0.054	0.035	0.013	0.002
74617	0.361	0.165	0.153	0.056	0.063	0.034	0.014	0.003
74618	0.343	0.144	0.146	0.064	0.065	0.046	0.011	0.004
74619	0.353	0.132	0.145	0.058	0.069	0.047	0.014	0.003
74622	0.333	0.128	0.130	0.059	0.062	0.035	0.013	0.003
74638	0.367	0.169	0.159	0.074	0.077	0.043	0.015	0.004
74639	0.353	0.162	0.146	0.069	0.071	0.034	0.013	0.003
74650	0.364	0.148	0.146	0.072	0.077	0.042	0.011	0.003
74661	0.358	0.154	0.139	0.062	0.056	0.036	0.015	0.003
74668	0.308	0.123	0.125	0.055	0.061	0.042	0.011	0.002
74670	0.375	0.123	0.145	0.053	0.053	0.028	0.015	0.003
74674	0.377	0.140	0.144	0.069	0.067	0.041	0.013	0.003
74675	0.342	0.152	0.152	0.058	0.069	0.033	0.011	0.003
74679	0.377	0.157	0.155	0.059	0.074	0.029	0.012	0.003
74683	0.337	0.127	0.130	0.055	0.053	0.054	0.012	0.002
74684	0.370	0.147	0.151	0.056	0.071	0.044	0.012	0.003
74691	0.349	0.140	0.132	0.064	0.057	0.046	0.011	0.003
74693	0.342	0.108	0.112	0.053	0.046	0.023	0.011	0.003
74699	0.289	0.122	0.115	0.057	0.058	0.048	0.013	0.002
74706	0.330	0.084	0.134	0.025	0.050	0.054	0.010	0.002
74710	0.368	0.146	0.136	0.064	0.060	0.043	0.011	0.002
74717	0.394	0.139	0.150	0.069	0.067	0.043	0.014	0.003

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74719	0.295	0.136	0.117	0.051	0.052	0.032	0.010	0.003
74727	0.318	0.107	0.092	0.039	0.031	0.051	0.012	0.003
74734	0.337	0.133	0.137	0.048	0.054	0.044	0.013	0.003
74735	0.345	0.147	0.141	0.063	0.065	0.059	0.014	0.003
MEAN	0.346	0.137	0.137	0.057	0.061	0.041	0.012	0.003
S.D.	0.0263	0.0192	0.0153	0.0103	0.0099	0.0082	0.0015	0.0006
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013M  
SPONSOR:ACC

TABLE 165 (F0 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 15

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74624	0.380	0.140	0.149	0.054	0.061	0.044	0.011	0.002
74628	0.399	0.096	0.132	0.050	0.049	0.042	0.019	0.003
74629	0.316	0.156	0.135	0.056	0.065	0.034	0.013	0.003
74631	0.365	0.132	0.146	0.062	0.072	0.036	0.014	0.003
74635	0.340	0.121	0.121	0.054	0.053	0.028	0.013	0.003
74640	0.360	0.137	0.124	0.054	0.051	0.033	0.010	0.003
74643	0.346	0.118	0.131	0.062	0.055	0.044	0.014	0.002
74646	0.293	0.119	0.114	0.049	0.052	0.031	0.011	0.003
74647	0.315	0.130	0.111	0.050	0.054	0.059	0.008	0.003
74649	0.345	0.135	0.131	0.054	0.062	0.037	0.012	0.003
74652	0.363	0.126	0.143	0.054	0.068	0.075	0.011	0.002
74653	0.406	0.150	0.155	0.061	0.068	0.037	0.013	0.003
74658	0.372	0.151	0.138	0.054	0.067	0.048	0.012	0.003
74659	0.378	0.141	0.139	0.057	0.065	0.027	0.011	0.003
74663	0.362	0.153	0.148	0.063	0.071	0.048	0.011	0.003
74680	0.322	0.134	0.124	0.058	0.060	0.053	0.009	0.003
74688	0.298	0.118	0.108	0.040	0.038	0.025	0.009	0.002
74692	0.404	0.137	0.128	0.061	0.055	0.041	0.012	0.004
74695	0.340	0.141	0.128	0.053	0.047	0.030	0.011	0.003
74697	0.354	0.146	0.150	0.068	0.073	0.029	0.017	0.003
74702	0.336	0.138	0.138	0.052	0.056	0.040	0.011	0.002
74703	0.393	0.147	0.151	0.072	0.066	0.038	0.013	0.003
74705	0.340	0.133	0.130	0.057	0.057	0.030	0.012	0.003
74713	0.352	0.135	0.128	0.039	0.057	0.042	0.012	0.003
74718	0.334	0.136	0.140	0.059	0.061	0.030	0.010	0.002
74720	0.304	0.118	0.142	0.060	0.069	0.040	0.012	0.003

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PROJECT NO.:WIL-186013M  
 SPONSOR:ACC

TABLE 165 (F0 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 16

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74723	0.320	0.144	0.125	0.063	0.062	0.033	0.012	0.003
74725	0.373	0.152	0.140	0.055	0.061	0.050	0.011	0.003
74726	0.315	0.128	0.130	0.062	0.056	0.035	0.016	0.003
74728	0.283	0.117	0.130	0.049	0.058	0.043	0.010	0.002
MEAN	0.347	0.134	0.134	0.056	0.060	0.039	0.012	0.003
S.D.	0.0332	0.0135	0.0118	0.0071	0.0081	0.0106	0.0023	0.0005
N	30	30	30	30	30	30	30	30

POFBWv4.12  
 12/09/2002  
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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 1

FEMALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74737	308.	0.630	3.880	0.750	0.182	0.143	0.067	0.041	0.025	0.009
74740	290.	0.697	4.110	0.769	0.224	0.262	0.096	0.037	0.025	0.007
74745	351.	0.567	4.949	0.678	0.160	0.265	0.065	0.019	0.023	0.009
74749	307.	0.616	3.697	0.674	0.199	0.521	0.069	0.028	0.018	0.005
74756	340.	0.609	5.485	0.709	0.200	0.394	0.051	0.019	0.026	0.012
74757	313.	0.617	3.757	0.719	0.246	0.326	0.098	0.042	0.028	0.008
74759	275.	0.709	4.305	0.680	0.200	0.200	0.121	0.040	0.021	0.004
74764	325.	0.594	4.105	0.717	0.185	0.169	0.087	0.036	0.025	0.007
74767	297.	0.660	4.636	0.697	0.195	0.330	0.068	0.040	0.023	0.008
74772	336.	0.628	4.408	0.637	0.199	0.244	0.058	0.042	0.026	0.006
74773	365.	0.575	3.860	0.611	0.274	0.186	0.110	0.035	0.022	0.005
74774	329.	0.590	3.453	0.650	0.176	0.334	0.072	0.028	0.019	0.005
74779	326.	0.592	3.948	0.638	0.175	0.193	0.064	0.029	0.022	0.006
74789	290.	0.683	4.893	0.783	0.224	0.266	0.084	0.037	0.030	0.006
74794	352.	0.563	3.912	0.665	0.188	0.162	0.067	0.027	0.020	0.006
74804	296.	0.642	3.557	0.696	0.186	0.264	0.105	0.045	0.031	0.007
74808	350.	0.594	3.723	0.740	0.163	0.263	0.081	0.051	0.028	0.007
74810	333.	0.595	4.592	0.820	0.210	0.174	0.065	0.034	0.022	0.005
74815	343.	0.592	4.058	0.700	0.163	0.257	0.051	0.019	0.022	0.013
74826	308.	0.646	3.990	0.714	0.179	0.188	0.094	0.039	0.030	0.005
74828	308.	0.633	3.766	0.584	0.153	0.214	0.073	0.031	0.024	0.006
74829	317.	0.656	3.744	0.640	0.237	0.249	0.075	0.040	0.021	0.009
74840	322.	0.649	4.671	0.674	0.168	0.248	0.075	0.039	0.022	0.005
74841	278.	0.709	3.550	0.773	0.180	0.209	0.125	0.038	0.030	0.008
74842	343.	0.603	4.676	0.714	0.149	0.271	0.089	0.016	0.022	0.008
74844	316.	0.620	4.892	0.867	0.187	0.320	0.084	0.035	0.029	0.006

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74845	338.	0.571	4.074	0.612	0.180	0.228	0.085	0.036	0.022	0.007
74854	315.	0.619	4.270	0.756	0.213	0.225	0.074	0.040	0.025	0.007
74864	339.	0.549	4.383	0.687	0.153	0.145	0.063	0.030	0.024	0.004
74867	322.	0.587	3.929	0.680	0.205	0.311	0.107	0.029	0.023	0.005
MEAN	321.	0.620	4.176	0.701	0.192	0.252	0.081	0.034	0.024	0.007
S.D.	22.7	0.0425	0.4927	0.0629	0.0289	0.0796	0.0194	0.0083	0.0035	0.0021
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74742	307.	0.658	4.381	0.827	0.179	0.179	0.091	0.039	0.027	0.006
74746	323.	0.650	4.136	0.728	0.186	0.279	0.056	0.032	0.031	0.007
74753	340.	0.585	3.826	0.621	0.194	0.244	0.106	0.039	0.026	0.006
74761	317.	0.621	4.760	0.707	0.199	0.230	0.070	0.030	0.023	0.006
74762	267.	0.757	4.596	0.772	0.165	0.210	0.150	0.042	0.033	0.007
74765	310.	0.619	3.516	0.597	0.219	0.197	0.115	0.033	0.021	0.006
74782	333.	0.604	3.643	0.721	0.222	0.195	0.135	0.038	0.027	0.004
74785	347.	0.542	3.968	0.605	0.153	0.262	0.072	0.031	0.020	0.005
74790	341.	0.587	3.721	0.584	0.211	0.249	0.112	0.030	0.026	0.006
74796	343.	0.563	4.408	0.624	0.155	0.163	0.097	0.033	0.021	0.008
74797	308.	0.597	4.506	0.731	0.221	0.205	0.098	0.035	0.026	0.006
74798	320.	0.628	4.375	0.719	0.222	0.175	0.069	0.031	0.022	0.005
74802	313.	0.639	4.792	0.709	0.224	0.291	0.155	0.036	0.027	0.008
74809	294.	0.687	4.296	0.755	0.190	0.194	0.094	0.030	0.026	0.006
74812	328.	0.595	3.942	0.595	0.201	0.177	0.084	0.035	0.023	0.004
74816	335.	0.609	4.006	0.678	0.167	0.194	0.103	0.039	0.023	0.006
74819	335.	0.660	4.170	0.749	0.203	0.155	0.079	0.038	0.024	0.006
74823	345.	0.594	5.116	0.751	0.186	0.296	0.087	0.042	0.024	0.005
74824	312.	0.619	4.705	0.689	0.173	0.189	0.101	0.036	0.027	0.005
74835	266.	0.703	3.774	0.789	0.192	0.252	0.081	0.048	0.028	0.006
74838	336.	0.613	3.676	0.750	0.259	0.202	0.092	0.037	0.026	0.006
74839	327.	0.636	5.327	0.850	0.232	0.196	0.131	0.042	0.028	0.006
74846	321.	0.611	4.293	0.682	0.162	0.187	0.100	0.030	0.020	0.005
74856	322.	0.640	4.298	0.773	0.199	0.189	0.100	0.042	0.024	0.006
74859	323.	0.607	4.529	1.062	0.211	0.211	0.056	0.041	0.034	0.005
74861	321.	0.601	3.741	0.685	0.156	0.296	0.058	0.041	0.027	0.006

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74863	333.	0.601	4.150	0.667	0.210	0.348	0.081	0.036	0.027	0.006
74869	290.	0.697	3.921	0.766	0.228	0.366	0.058	0.037	0.022	0.007
74873	352.	0.565	3.866	0.682	0.176	0.278	0.075	0.028	0.019	0.006
MEAN	321.	0.624	4.222	0.720	0.196	0.228	0.093	0.036	0.025	0.006
S.D.	21.3	0.0457	0.4502	0.0951	0.0266	0.0546	0.0262	0.0049	0.0037	0.0009
N	29	29	29	29	29	29	29	29	29	29

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 5

FEMALE GROUP: 1000 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74738	301.	0.654	4.850	0.781	0.196	0.156	0.055	0.028	0.026	0.008
74739	313.	0.620	4.256	0.741	0.192	0.326	0.093	0.040	0.025	0.007
74743	326.	0.641	3.681	0.702	0.196	0.353	0.085	0.037	0.023	0.004
74744	283.	0.686	4.332	0.799	0.184	0.279	0.092	0.042	0.024	0.005
74748	335.	0.624	3.922	0.678	0.221	0.263	0.078	0.040	0.022	0.006
74752	318.	0.604	4.236	0.752	0.160	0.226	0.051	0.035	0.023	0.006
74766	283.	0.746	3.636	0.671	0.216	0.272	0.136	0.048	0.032	0.007
74777	387.	0.532	3.773	0.605	0.168	0.145	0.091	0.019	0.019	0.005
74780	335.	0.603	3.582	0.594	0.179	0.427	0.116	0.033	0.022	0.006
74791	289.	0.685	4.336	0.734	0.239	0.384	0.078	0.045	0.025	0.006
74793	334.	0.614	3.799	0.710	0.219	0.219	0.099	0.036	0.024	0.005
74795	376.	0.540	5.035	0.697	0.165	0.152	0.103	0.031	0.027	0.006
74799	333.	0.571	4.378	0.649	0.216	0.201	0.087	0.034	0.028	0.007
74801	314.	0.621	4.650	0.713	0.258	0.242	0.126	0.041	0.029	0.007
74806	303.	0.667	3.630	0.634	0.201	0.261	0.100	0.036	0.029	0.006
74818	332.	0.590	3.660	0.623	0.151	0.322	0.050	0.019	0.025	0.009
74820	294.	0.704	4.483	0.718	0.231	0.224	0.092	0.044	0.032	0.005
74821	311.	0.640	4.360	0.707	0.190	0.392	0.073	0.036	0.024	0.006
74830	287.	0.676	4.310	0.721	0.164	0.258	0.088	0.036	0.028	0.008
74831	368.	0.538	4.027	0.753	0.215	0.310	0.070	0.032	0.023	0.006
74834	327.	0.645	4.211	0.661	0.199	0.321	0.096	0.032	0.023	0.007
74847	285.	0.716	3.667	0.775	0.154	0.228	0.087	0.051	0.022	0.006
74848	323.	0.641	4.003	0.647	0.211	0.183	0.067	0.031	0.016	0.006
74849	282.	0.652	4.433	0.716	0.238	0.220	0.069	0.041	0.033	0.005
74850	302.	0.675	4.007	0.781	0.202	0.238	0.048	0.044	0.025	0.007
74855	341.	0.589	4.194	0.689	0.191	0.199	0.122	0.035	0.028	0.006

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 6

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74858	338.	0.580	4.426	0.663	0.154	0.183	0.067	0.036	0.027	0.005
74865	366.	0.527	3.292	0.609	0.194	0.208	0.109	0.031	0.022	0.005
74868	357.	0.557	4.095	0.636	0.216	0.162	0.119	0.041	0.029	0.007
74871	302.	0.689	3.841	0.775	0.242	0.573	0.089	0.043	0.032	0.010
MEAN	322.	0.628	4.104	0.698	0.199	0.264	0.088	0.037	0.026	0.006
S.D.	29.2	0.0576	0.4025	0.0577	0.0286	0.0940	0.0229	0.0073	0.0040	0.0013
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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FEMALE GROUP: 2500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74747	312.	0.705	3.750	0.821	0.192	0.208	0.123	0.051	0.029	0.008
74750	305.	0.675	3.898	0.698	0.174	0.236	0.088	0.035	0.025	0.006
74751	296.	0.689	4.101	0.716	0.247	0.399	0.095	0.040	0.031	0.007
74754	301.	0.635	3.917	0.701	0.213	0.189	0.075	0.037	0.025	0.006
74755	320.	0.606	3.984	0.669	0.194	0.181	0.097	0.039	0.022	0.005
74768	334.	0.593	3.883	0.686	0.231	0.201	0.065	0.039	0.024	0.005
74769	350.	0.611	4.063	0.740	0.740-A	0.189	0.077	0.041	0.029	0.005
74770	345.	0.588	4.104	0.716	0.191	0.191	0.081	0.040	0.022	0.006
74781	334.	0.593	4.542	0.731	0.174	0.263	0.083	0.024	0.026	0.007
74784	285.	0.716	3.547	0.635	0.189	0.207	0.126	0.038	0.026	0.006
74786	312.	0.615	4.285	0.718	0.176	0.199	0.089	0.036	0.020	0.005
74787	295.	0.661	4.095	0.729	0.224	0.207	0.110	0.041	0.033	0.004
74792	318.	0.651	4.657	0.739	0.226	0.179	0.078	0.037	0.024	0.004
74800	300.	0.693	3.603	0.727	0.190	0.233	0.057	0.037	0.020	0.006
74803	301.	0.668	3.897	0.704	0.296	0.266	0.069	0.052	0.025	0.008
74807	347.	0.614	3.744	0.669	0.222	0.210	0.089	0.041	0.028	0.009
74811	338.	0.544	3.846	0.707	0.160	0.340	0.070	0.036	0.023	0.006
74813	299.	0.659	3.993	0.716	0.174	0.171	0.073	0.034	0.028	0.008
74817	328.	0.646	3.732	0.655	0.189	0.183	0.079	0.036	0.024	0.005
74822	349.	0.596	4.160	0.756	0.278	0.172	0.054	0.034	0.021	0.006
74827	326.	0.613	3.558	0.727	0.187	0.356	0.173	0.035	0.033	0.005
74832	293.	0.669	4.143	0.683	0.215	0.246	0.078	0.040	0.022	0.006
74833	331.	0.634	4.242	0.764	0.172	0.178	0.074	0.037	0.022	0.005
74836	319.	0.630	4.019	0.652	0.163	0.160	0.063	0.037	0.026	0.006
74853	328.	0.613	4.216	0.802	0.229	0.305	0.111	0.043	0.028	0.007
74857	344.	0.573	4.346	0.619	0.192	0.192	0.093	0.045	0.023	0.005

A = OBVIOUS ERRONEOUS VALUE, NOT INCLUDED IN CALCULATION OF MEAN

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 166 (F0 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74860	318.	0.619	4.481	0.689	0.189	0.230	0.087	0.034	0.022	0.005
74862	276.	0.725	4.362	0.891	0.185	0.293	0.099	0.035	0.031	0.009
74866	344.	0.570	3.587	0.625	0.177	0.247	0.064	0.036	0.022	0.005
74870	345.	0.588	4.217	0.777	0.191	0.203	0.096	0.038	0.032	0.006
MEAN	320.	0.633	4.032	0.715	0.201	0.228	0.087	0.038	0.026	0.006
S.D.	21.1	0.0457	0.2927	0.0582	0.0324	0.0591	0.0241	0.0052	0.0039	0.0013
N	30	30	30	30	29	30	30	30	30	30

FBW = FINAL BODY WEIGHT

POFBWv4.12  
 12/10/2002  
 R:12/11/2002

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 LITTERS FROM GROUP 1: 0 PPM  
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NUMBER OF VIABLE PUPS

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DAM #	NO. DEAD			NO. VIABLE				TOTAL	NUMBER OF VIABLE PUPS												
	DAY 0			DAY 0					DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21		
	M	F	U	M	%	F	%		M	F	M	F	M	F	M	F	M	F	M	F	
74737	0	0	0	6/ 6	100	8/ 8	100	14	6	8	6	8	4	4	4	4	4	4	4	4	4
74740	1	0	0	5/ 6	83	8/ 8	100	13	5	8	5	8	4	4	4	4	4	4	4	4	4
74757	2	0	0	8/10	80	6/ 6	100	14	8	6	8	6	4	4	4	4	4	4	4	4	4
74759	0	0	0	8/ 8	100	5/ 5	100	13	8	5	8	5	4	4	4	4	4	4	4	4	4
74764	0	0	0	9/ 9	100	7/ 7	100	16	9	7	9	7	4	4	4	4	4	4	4	4	4
74767	0	0	0	10/10	100	6/ 6	100	16	10	6	10	6	4	4	4	4	4	4	4	4	4
74772	0	0	0	8/ 8	100	6/ 6	100	14	8	6	7	6	4	4	4	4	4	4	4	4	4
74773	1	0	0	6/ 7	86	9/ 9	100	15	6	9	6	9	4	4	4	4	4	4	4	4	4
74774	0	0	0	5/ 5	100	10/10	100	15	5	10	5	10	4	4	4	4	4	4	4	4	4
74789	0	0	0	8/ 8	100	6/ 6	100	14	8	6	8	6	4	4	4	4	4	4	4	4	4
74804	0	0	0	7/ 7	100	9/ 9	100	16	7	9	5	6	4	4	4	4	4	4	4	4	4
74808	0	0	0	7/ 7	100	8/ 8	100	15	7	8	7	8	4	4	4	4	4	4	4	4	4
74810	0	0	0	9/ 9	100	8/ 8	100	17	9	8	9	8	4	4	4	4	4	4	4	4	4
74826	1	0	0	5/ 6	83	6/ 6	100	11	5	6	5	6	4	4	4	4	4	4	4	4	4
74829	0	0	0	6/ 6	100	11/11	100	17	6	11	6	10	4	4	4	4	4	4	4	4	4
74840	0	0	0	2/ 2	100	1/ 1	100	3	2	1	2	1	2	1	2	1	2	1	2	1	1
74841	1	0	0	7/ 8	88	6/ 6	100	13	7	6	7	6	4	4	4	4	4	4	4	4	4
74844	0	0	0	4/ 4	100	3/ 3	100	7	4	3	4	3	4	3	4	3	4	3	4	3	3
74845	0	0	0	3/ 3	100	9/ 9	100	12	3	9	3	9	3	5	3	5	3	5	3	5	5
74854	0	1	0	6/ 6	100	7/ 8	88	13	6	7	6	7	4	4	4	4	4	4	4	4	4
74864	0	0	0	10/10	100	7/ 7	100	17	10	7	10	6	4	4	4	4	4	4	4	4	4
74867	0	0	0	5/ 5	100	9/ 9	100	14	5	9	5	9	4	4	4	4	4	4	4	4	4
TOTAL	6	1	0	144/150		155/156		299	144	155	141	150	85	85	85	85	85	85	85	85	85

M = MALE, F = FEMALE, U = UNDETERMINED



PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 167 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL LITTER VIABILITY

PAGE 3

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 LITTERS FROM GROUP 2: 500 PPM  
 -----

DAM #	NO. DEAD			NO. VIABLE				TOTAL	NUMBER OF VIABLE PUPS											
	DAY 0			DAY 0					DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21	
	M	F	U	M	%	F	%		M	F	M	F	M	F	M	F	M	F	M	F
74861	0	0	0	3/ 3	100	2/ 2	100	5	3	2	3	2	3	2	3	2	3	2	3	2
74863	0	0	0	5/ 5	100	8/ 8	100	13	5	8	5	8	4	4	4	4	4	4	4	4
74869	0	0	0	3/ 3	100	7/ 7	100	10	3	7	3	7	3	5	3	5	3	5	3	5
TOTAL	6	9	0	179/185		211/220		390	175	204	171	200	106	110	104	107	98	100	97	100

M = MALE, F = FEMALE, U = UNDETERMINED

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 LITTERS FROM GROUP 3: 1000 PPM  
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NUMBER OF VIABLE PUPS

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DAM #	NO. DEAD DAY 0			NO. VIABLE DAY 0				TOTAL	NUMBER OF VIABLE PUPS													
	M	F	U	M	%	F	%		DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21			
									M	F	M	F	M	F	M	F	M	F	M	F		
74738	1	0	0	8/ 9	89	5/ 5	100	13	8	5	8	5	4	4	4	4	4	4	4	4	4	4
74739	0	0	0	8/ 8	100	7/ 7	100	15	8	7	8	7	4	4	4	4	4	4	4	4	4	4
74743	0	1	0	6/ 6	100	6/ 7	86	12	6	6	6	5	4	4	4	4	4	4	4	4	4	4
74744	0	0	0	12/12	100	4/ 4	100	16	12	4	12	4	4	4	4	4	4	4	4	4	4	4
74748	0	0	0	7/ 7	100	4/ 4	100	11	6	4	6	4	4	4	4	4	4	4	4	4	4	4
74752	0	0	0	5/ 5	100	11/11	100	16	5	11	3	11	3	5	3	5	3	5	3	5	3	5
74766	0	0	0	8/ 8	100	8/ 8	100	16	8	8	8	8	4	4	4	4	4	4	4	4	4	4
74780	0	0	0	3/ 3	100	9/ 9	100	12	3	9	3	9	3	5	3	5	3	5	3	5	3	5
74791	0	0	0	7/ 7	100	6/ 6	100	13	7	6	7	5	4	4	4	4	4	4	4	4	4	4
74793	0	0	0	6/ 6	100	11/11	100	17	6	11	6	11	4	4	4	4	4	4	4	4	4	4
74795	0	0	0	8/ 8	100	9/ 9	100	17	8	9	8	9	4	4	4	4	4	4	4	4	4	4
74799	0	0	0	9/ 9	100	6/ 6	100	15	8	5	7	5	4	4	4	4	4	4	4	4	4	4
74801	1	4	0	5/ 6	83	5/ 9	56	10	4	5	4	5	4	4	4	4	4	4	4	4	4	4
74806	0	0	0	7/ 7	100	8/ 8	100	15	7	7	7	6	4	4	4	4	4	4	4	4	4	4
74820	0	0	0	5/ 5	100	10/10	100	15	5	10	5	10	4	4	4	4	4	4	4	4	4	4
74821	0	0	0	6/ 6	100	3/ 3	100	9	6	3	6	3	5	3	5	3	5	3	5	3	5	3
74830	0	0	0	10/10	100	5/ 5	100	15	10	5	10	5	4	4	4	4	4	4	4	4	4	4
74831	0	0	0	9/ 9	100	11/11	100	20	9	10	9	10	4	4	3	4	3	4	3	4	3	4
74834	0	1	0	5/ 5	100	7/ 8	88	12	5	7	5	7	4	4	4	4	4	4	4	4	4	4
74847	0	1	0	7/ 7	100	7/ 8	88	14	7	7	7	7	4	4	4	4	4	4	4	4	4	4
74848	0	0	0	3/ 3	100	8/ 8	100	11	3	8	3	8	3	5	3	5	3	5	3	5	3	5
74849	0	0	0	4/ 4	100	10/10	100	14	4	10	4	10	4	4	4	4	4	4	4	4	4	4
74850	0	0	0	7/ 7	100	9/ 9	100	16	7	9	7	9	4	4	4	4	4	4	4	4	4	4
74855	0	0	0	9/ 9	100	7/ 7	100	16	9	7	9	7	4	4	4	4	4	4	4	4	4	4
74858	0	0	0	6/ 6	100	11/11	100	17	6	11	6	11	4	4	4	4	4	4	4	4	4	4
74868	0	0	0	9/ 9	100	12/12	100	21	9	11	9	11	4	4	1	4	1	3	1	3	1	3

PROJECT NO.:WIL-186013F  
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TABLE 167 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL LITTER VIABILITY

PAGE 5

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 LITTERS FROM GROUP 3: 1000 PPM  
 -----

DAM #	NO. DEAD			NO. VIABLE				NUMBER OF VIABLE PUPS												
	DAY 0			DAY 0				DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21		
	M	F	U	M	%	F	%	TOTAL	M	F	M	F	M	F	M	F	M	F		
74871	1	1	0	3/4	75	9/10	90	12	3	9	3	9	3	5	3	5	3	5	3	5
TOTAL	3	8	0	182/185		208/216		390	179	204	176	201	105	111	101	111	101	110	101	110

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 M = MALE, F = FEMALE, U = UNDETERMINED

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 167 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL LITTER VIABILITY

PAGE 7

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 LITTERS FROM GROUP 4: 2500 PPM  
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DAM #	NO. DEAD DAY 0								NO. VIABLE DAY 0								NUMBER OF VIABLE PUPS															
	M			F			U			M		%		F		%		TOTAL		DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21		
	M	F	U	M	F	U	M	F	U	M	F	%	%	M	F	%	%	TOTAL	M	F	M	F	M	F	M	F	M	F	M	F		
74870	0	0	0	9	9	100	2	2	100									11	9	2	8	2	6	2	6	2	6	2	6	2	6	2
TOTAL	5	2	1	205	210		183	185										388	199	177	191	170	103	101	103	101	102	100	100	98		

M = MALE, F = FEMALE, U = UNDETERMINED

PPLVv4.0  
 12/09/2002

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LITTERS FROM GROUP 1:		0 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74737	07-DEC-01	a28	C	A	a28	a28	C	C	C	a28	A	a28	C	C	A								
		M	M	M	M	M	F	M	F	F	F	F	F	F	F	F							
74740	06-DEC-01	0	A	a28	C	a28	a28	A	a28	C	C	a28	C	C	a28								
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F							
74757	07-DEC-01	0	0	a28	C	A	a28	C	A	C	C	A	a28	a28	a28	C	C						
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F					
74759	07-DEC-01	C	A	C	a28	A	C	a28	C	A	a28	a28	C	a28									
		M	M	M	M	M	M	M	M	M	F	F	F	F	F								
74764	07-DEC-01	C	A	a28	C	a28	C	C	a28	C	A	C	a28	C	a28	C	a28	C	a28				
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F				
74767	06-DEC-01	C	C	C	a28	C	a28	A	a28	C	A	a28	C	C	a28	C	A						
		M	M	M	M	M	M	M	M	M	F	F	M	F	F	F	F	F					
74772	12-DEC-01	C	A	a34	C	C	a28	2	A	A	a34	a34	C	a28	C								
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F							
74773	06-DEC-01	0	A	C	a28	a28	C	a28	A	C	C	a28	C	C	C	A	a28						
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74774	09-DEC-01	C	a37	A	a28	a37	C	a28	a37	C	C	C	a37	C	C	A							
		F	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F					

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 1:		0 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74789	12-DEC-01	a28	C	a34	A	C	a34	C	C	A	A	C	C	a28	a34								
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F							
74804	09-DEC-01	a37	2	3	A	C	a28	a37	A	a28	C	A	26	C	4	2	3						
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F						
74808	07-DEC-01	A	C	a28	C	a28	C	a28	C	a28	a28	A	C	A	C	C							
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F							
74810	07-DEC-01	C	A	a28	C	C	a28	A	C	a28	C	C	C	a28	C	a28	A	C					
		M	M	M	M	M	M	M	F	F	M	F	M	F	F	F	F	F	F	F	F		
74826	09-DEC-01	0	a37	C	a37	A	a28	C	A	a37	a28	A	C										
		M	M	M	M	M	M	F	F	F	F	F	F										
74829	06-DEC-01	C	a28	C	a28	A	a28	a28	C	C	C	A	C	a28	C	a28	C	2					
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F					
74840	10-DEC-01	a28	A	A																			
		M	M	F																			
74841	07-DEC-01	0	A	a28	C	C	A	C	a28	C	a28	a28	A	a28	C								
		M	M	M	M	M	M	M	F	F	F	M	F	F	F								
74844	10-DEC-01	a28	a36	a36	A	A	a28	A															
		M	M	M	M	F	F	F															

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 1:		0 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74845	09-DEC-01	A	a28	A	a37	a28	C	A	C	a37	C	C	a37										
		M	M	M	F	F	F	F	F	F	F	F	F	F									
74854	09-DEC-01	0	A	a28	C	a37	A	C	A	C	a37	a37	C	a28	C								
		F	M	M	M	M	M	M	M	F	F	F	F	F	F	F							
74864	05-DEC-01	a28	C	C	C	C	A	C	C	a28	a28	C	a28	a28	C	A	2	a28					
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F					
74867	06-DEC-01	A	a28	A	C	a28	a28	A	C	a28	C	C	C	C	a28								
		M	M	M	M	M	F	F	F	F	F	F	F	F	F								

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 2:		500 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74742	07-DEC-01	a28 M	C F	A M	a28 F	C M	C M	a28 M	C M	a28 M	a28 F	C F	C F	C F	C F	a28 F	C F	C F	C F	A F			
74746	07-DEC-01	a28 M	a28 M	a28 M	C M	C M	A M	3 M	C M	C F	A F	a28 F	7 F	a28 F	2 F	1 F							
74753	07-DEC-01	0 F	A M	a28 M	A M	C F	C F	C F	a28 F	a28 F	1 F	C F	A F	a28 F	a28 F	C F							
74761	09-DEC-01	4 M	C M	C M	a37 M	a28 M	1 M	a37 M	C M	A M	3 M	7 M	A F	a28 F	C F	1 F	a37 F						
74762	05-DEC-01	a28 M	a28 M	a28 M	A M	C M	C M	C M	a28 F	a28 F	a28 F	A F	1 F	C F									
74765	08-DEC-01	11 M	12 F	12 F																			
74782	05-DEC-01	20 M	C M	a28 M	A M	C M	C M	C M	29 M	A F	C F	a28 F	C F	a28 F	12 F								
74785	07-DEC-01	a28 M	C M	C M	A M	a28 M	C M	a28 M	A F	C F	a28 F	C F	C F	a28 F	a28 F	C F							
74790	08-DEC-01	a37 M	A M	C M	a28 M	C M	C M	1 M	C M	A M	C M	a37 M	1 F	C F	A F	A F	a28 F	3 F					

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 2:		500 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74796	07-DEC-01	C	a28	C	C	a28	C	A	C	a28	C	C	a28	a28	a28	A							
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F						
74797	08-DEC-01	a37	C	C	C	C	a28	6	C	A	a37	a37	A	a28									
		M	M	M	M	M	M	M	M	M	F	F	F	F									
74798	06-DEC-01	a28	C	a28	A	5	C	a28	C	a28	C	C	A	A	C								
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F						
74802	06-DEC-01	a28	C	a28	C	A	C	C	A	C	A	C	a28	a28	a28	C	C						
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F				
74805	07-DEC-01	b0	b0	b0	b0	b0	b0	b0	b0	b0	b0	b0	b0	b0									
		M	M	M	M	F	F	F	F	F	F	F	F	F									
74809	08-DEC-01	C	a37	a37	a28	C	a37	C	A	A	a28	C	C	a37									
		M	M	M	F	F	F	F	F	M	M	F	F	F									
74812	05-DEC-01	9	14	10	14	3	C	9	6	C	2	C	14	C	12	C							
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F							
74816	07-DEC-01	a28	C	a28	C	A	1	a28	C	C	a28	a28	A	a28	C	C	C						
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F				
74819	09-DEC-01	a37	a28	A	a37	C	a37	C	C	C	A	a37	a28	C									
		M	M	M	M	M	F	F	F	F	F	F	F	F									

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA  
 b=SENT TO NECROPSY DUE TO DEATH OF DAM

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LITTERS FROM GROUP 2:		500 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74823	08-DEC-01	A	C	a37	C	a37	a28	a28	C	a37	C	a37	A	C	C	C	C						
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74824	09-DEC-01	a28	C	10	C	A	C	a37	C	a37	a28	A	C	C	a37								
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F							
74835	07-DEC-01	a28	a28	A	C	C	a28	A	11	C	C	A	C	C	a28								
		M	M	M	M	M	M	F	F	F	F	F	F	F	F								
74838	05-DEC-01	C	C	C	1	a28	A	C	a28	a28	a28	A	a28	C	a28	C	C	C					
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F		
74839	06-DEC-01	0	A	C	C	a28	C	a28	C	a28	a28	C	a28	C	1	C	C	a28	A				
		M	M	M	M	M	M	M	F	M	F	M	F	F	F	F	F	F	F	F	F	F	F
74846	06-DEC-01	0	a28	A	a28	a28	C	A	a28	a28	C	C	a28	C	C								
		M	M	M	M	M	M	F	F	F	F	F	F	F	F								
74856	07-DEC-01	a28	a28	C	a28	C	A	C	a28	C	C	3	a28	a28	C	A	C	C					
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F			
74859	09-DEC-01	a28	a37	C	a37	C	A	a28	C	A	a37	C	A	C	1								
		M	M	M	M	M	M	F	F	F	F	F	F	F	F								
74861	09-DEC-01	a28	A	a37	a28	A																	
		M	M	M	F	F																	

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 168 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP VIABILITY

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LITTERS FROM GROUP 2:		500 PPM																					
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74863	09-DEC-01	a37	A	a28	C	A	a37	C	C	a37	A	C	C	a28									
		M	M	M	M	M	F	F	F	F	F	F	F	F	F								
74869	06-DEC-01	a28	A	a28	A	a28	C	a28	C	a28	a28												
		M	M	M	F	F	F	F	F	F	F												

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
M = MALE, F = FEMALE, U = UNDETERMINED  
a=SCHEDULED EUTHANASIA

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-----																							
LITTERS FROM GROUP 3: 1000 PPM																							
-----																							
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
-----																							
74738	08-DEC-01	0	A	a37	a37	C	C	A	a28	C	C	a37	A	a28	C								
		M	M	M	M	M	M	F	M	F	M	F	F	F	M								
74739	07-DEC-01	a28	C	a28	A	C	a28	C	A	C	a28	C	C	a28	a28	C							
		M	M	M	M	M	M	F	F	F	F	M	F	F	F	M							
74743	07-DEC-01	0	a28	C	A	a28	a28	3	A	C	a28	a28	a28	C									
		F	M	M	M	F	F	F	F	F	F	M	M	M									
74744	12-DEC-01	C	A	C	C	C	a34	a28	C	C	C	a34	C	a34	a34	a28	A						
		M	M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F					
74748	08-DEC-01	a37	A	1	C	A	C	a28	a28	a37	a37	A											
		M	M	M	M	M	M	F	M	F	F	F											
74752	06-DEC-01	4	a28	3	a28	A	C	a28	C	C	A	a28	C	a28	a28	C	C						
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F						
74766	08-DEC-01	C	A	C	C	a37	a28	C	a37	C	a28	C	a37	A	C	C	a37						
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F						
74780	08-DEC-01	a37	a28	A	A	a37	C	a28	C	C	a37	C	a37										
		M	M	M	F	F	F	F	F	F	F	F	F										
74791	08-DEC-01	C	A	C	a37	A	a28	C	a37	2	a37	C	a28	A									
		M	M	M	M	M	M	M	M	F	F	F	F	F									

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----  
 LITTERS FROM GROUP 3: 1000 PPM  
 -----

DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
74793	06-DEC-01	a28	C	C	a28	A	a28	C	C	C	a28	C	a28	C	A	C	a28	C					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F				
74795	08-DEC-01	C	C	a37	a37	a28	A	C	C	A	a37	C	C	a37	a28	C	C	C					
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F				
74799	08-DEC-01	a28	a37	A	C	C	a37	C	1	3	a37	a37	C	a28	A	1							
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F							
74801	07-DEC-01	0	0	0	0	0	1	a28	a28	a28	A	a28	C	a28	A	a28							
		M	F	F	F	F	M	M	M	M	M	M	F	F	F	F							
74806	05-DEC-01	C	a28	A	C	C	A	a28	a28	a28	a28	A	3	C	1	C							
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F							
74820	06-DEC-01	a28	A	C	a28	a28	C	a28	C	C	C	a28	A	C	C	a28							
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F							
74821	09-DEC-01	a37	A	a28	a37	C	a37	A	a28	A													
		M	M	M	M	M	M	F	F	F													
74830	09-DEC-01	C	A	C	a37	C	a28	C	a37	C	C	A	C	a37	a37	a28							
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F							
74831	08-DEC-01	a37	A	6	C	C	C	C	a28	C	a28	C	A	1	C	C	a37	C	a37	C	a37	C	C
		M	M	M	M	M	F	M	F	M	M	M	F	F	F	F	F	F	F	F	F	F	F

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 168 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP VIABILITY

-----																							
LITTERS FROM GROUP 3: 1000 PPM																							
-----																							
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
-----																							
74834	07-DEC-01	0	a28	C	A	a28	a28	A	a28	a28	28	C	C	C									
		F	M	M	M	M	M	F	F	F	F	F	F	F	F								
74847	06-DEC-01	0	C	A	C	a28	a28	C	a28	A	C	C	C	a28	a28	a28							
		F	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F						
74848	06-DEC-01	a28	a28	A	A	C	a28	a28	a28	a28	C	C											
		M	M	M	F	F	F	F	F	F	F	F											
74849	08-DEC-01	a37	a37	A	a28	a28	C	A	C	C	a37	C	a37	C	C								
		M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F						
74850	07-DEC-01	C	C	a28	a28	A	a28	C	C	C	C	A	a28	C	A	C	a28						
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F						
74855	06-DEC-01	C	a28	C	a28	C	C	C	A	a28	a28	A	a28	C	C	a28	C						
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F						
74858	09-DEC-01	C	a37	C	A	C	a28	a37	C	a37	C	C	C	a37	A	C	C	a28					
		F	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74868	09-DEC-01	5	A	C	C	7	C	C	7	C	C	C	C	1	C	C	a28	a37	C	10	A	C	
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	
74871	07-DEC-01	0	0	a28	a28	a28	A	C	C	A	a28	C	a28	C	a28								
		M	F	F	M	M	M	F	F	F	F	F	F	F	F								

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----																							
LITTERS FROM GROUP 4: 2500 PPM																							
-----																							
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
-----																							
74747	07-DEC-01	a28	C	A	A	C	a28	C	C	a28	C	C	C	a28	a28	C	C	A	C	C	C	1	
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	
74751	09-DEC-01	a28	A	C	a37	A	C	C	C	C	a37	C	a37	A	a28								
		M	M	M	M	M	M	M	M	M	F	F	F	F	F								
74754	08-DEC-01	C	C	C	C	C	C	a37	a37	A	a28	C	a37	a37	C	A	a28						
		M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F						
74755	08-DEC-01	A	a37	a37	a28	A	C	C	C	a37	1	a37	a28										
		F	M	M	M	M	M	M	M	F	F	F	F										
74768	07-DEC-01	C	A	C	a28	C	a28	a28	C	a28	C	A	a28	C	a28								
		M	M	M	M	M	M	M	M	F	F	F	F	F	F								
74769	07-DEC-01	0	15	4	14	1	a28	A	A	a28	C	C	a28	a28	4	C	1	C					
		F	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74770	09-DEC-01	C	a37	a37	C	a28	A	C	C	C	A	A	a28	a37	C								
		M	M	M	M	M	M	M	M	F	F	F	F	F	F								
74784	08-DEC-01	2	2	2	2	2																	
		M	M	M	F	F																	
74786	08-DEC-01	0	C	C	a37	A	a28	A	C	C	A	a37	a28	C	a37	C							
		U	M	M	M	M	M	M	M	M	F	F	F	F	F	F							

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 4:		2500 PPM																						
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
74787	05-DEC-01	a28	C	a28	a28	C	A	C	a28	C	A	C	C	C	a28	C	a28							
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F							
74792	07-DEC-01	a28	C	A	C	C	a28	a28	C	a28	a28	A	A	C	C	C	C							
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F							
74803	07-DEC-01	1	1	15	2	1	1	1	1	16	2	16	1	1	14	2								
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F								
74807	06-DEC-01	a28	C	C	a28	A	a28	2	A	C	C	a28	a28	a28	C									
		M	M	M	M	M	M	F	F	F	F	F	F	F	F									
74811	07-DEC-01	A	C	C	C	a28	a28	a28	C	C	C	C	a28	A	a28	a28								
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F								
74813	08-DEC-01	C	C	C	a28	C	C	a37	A	a37	C	a37	A	a28	a37									
		M	M	M	M	M	M	M	M	M	F	F	F	F	F									
74817	09-DEC-01	C	a28	C	A	a37	a37	C	a28	C	C	a37	C	A	a37									
		M	M	M	M	M	M	F	F	F	F	F	F	F	F									
74822	08-DEC-01	0	0	0	a37	C	a37	C	A	C	C	a37	C	a28	A	A	a28							
		M	M	F	M	F	F	F	F	F	F	F	F	F	M	M	M							
74827	08-DEC-01	0	a37	A	C	C	a28	a37	C	C	a28	A	C	C	a37	a37	C							
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F								

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----																							
LITTERS FROM GROUP 4: 2500 PPM																							
-----																							
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
-----																							
74832	06-DEC-01	0	C	A	C	a28	a28	A	C	a28	C	a28	C	C	C	a28	a28						
		M	M	M	M	M	M	F	F	M	M	M	M	M	F	F	F	F					
74833	08-DEC-01	C	A	a37	C	C	C	a37	a28	C	a37	A	a28	C	C	a37							
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F						
74836	05-DEC-01	0	a28	C	C	C	a28	a28	A	C	C	A	A	a28	a28	C							
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F							
74853	06-DEC-01	C	a28	C	2	C	A	C	a28	a28	C	A	A	3	a28	a28	C	C					
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F					
74857	07-DEC-01	a28	C	a28	C	2	C	C	a28	A	A	a28	C	C	A	C	a28						
		M	M	M	M	M	M	M	M	F	M	F	F	F	F	F	F						
74860	08-DEC-01	a37	A	A	C	a28	a37	a28	A	a37	C	C	C	C									
		M	M	M	M	M	F	F	F	F	F	F	F	F									
74862	09-DEC-01	a28	a37	C	C	C	C	C	A	a37	C	a37	37	A	a28								
		M	M	M	M	M	M	M	M	M	F	F	F	F	F								
74866	06-DEC-01	A	C	a28	a28	C	C	C	C	a28	a28	a28	C	C	a28	C	A						
		M	M	M	M	M	M	M	M	F	F	M	F	F	F	F	F						
74870	07-DEC-01	2	a28	A	a28	C	A	C	a28	a28	a28	a28											
		M	M	F	M	M	M	M	M	M	M	F											

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 169 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

PAGE 1

ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74737	1	M	SCHEDULED EUTHANASIA	28	
	2	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	28	
	5	M	SCHEDULED EUTHANASIA	28	
	6	F	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	28	
	11	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
	74740	1	M	FOUND DEAD	0
		3	M	SCHEDULED EUTHANASIA	28
4		M	CULLED ON SCHEDULED DAY	4	
5		M	SCHEDULED EUTHANASIA	28	
6		M	SCHEDULED EUTHANASIA	28	
8		F	SCHEDULED EUTHANASIA	28	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
11		F	SCHEDULED EUTHANASIA	28	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	28	
74757		1	M	FOUND DEAD	0
		2	M	FOUND DEAD	0
	3	M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74757	4	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	CULLED ON SCHEDULED DAY	4	
	9	M	CULLED ON SCHEDULED DAY	4	
	10	M	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	28	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	74759	1	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
		4	M	SCHEDULED EUTHANASIA	28
		6	M	CULLED ON SCHEDULED DAY	4
		7	M	SCHEDULED EUTHANASIA	28
		8	M	CULLED ON SCHEDULED DAY	4
10		F	SCHEDULED EUTHANASIA	28	
11		F	SCHEDULED EUTHANASIA	28	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	SCHEDULED EUTHANASIA	28	
74764		1	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	28
		4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74764	8	M	SCHEDULED EUTHANASIA	28	
	9	M	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	28	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	28	
74767	1	M	CULLED ON SCHEDULED DAY	4	
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	28	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	8	M	SCHEDULED EUTHANASIA	28	
	9	M	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	28	
	12	M	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	74772	1	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	34
4		M	CULLED ON SCHEDULED DAY	4	
5		M	CULLED ON SCHEDULED DAY	4	
6		M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74772	7	M	MISSING	2
	10	F	SCHEDULED EUTHANASIA	34
	11	F	SCHEDULED EUTHANASIA	34
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	28
	14	F	CULLED ON SCHEDULED DAY	4
74773	1	M	FOUND DEAD	0
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	28
	5	M	SCHEDULED EUTHANASIA	28
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	28
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	LACERATION(S) DORSAL NOSE	14
			SCHEDULED EUTHANASIA	28
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	16	F	TAIL MISSING	1
			TAIL MISSING	4
			TAIL MISSING	7
		TAIL MISSING	14	
		TAIL MISSING	21	
		TAIL MISSING	28	
		SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74773	16	F	TAIL MISSING	0
74774	1	F	SUBCUTANEOUS HEMORRHAGE(S) AROUND NOSE	0
	2	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	37
	5	M	SCHEDULED EUTHANASIA	28
	6	M	SCHEDULED EUTHANASIA	37
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	28
	9	F	SCHEDULED EUTHANASIA	37
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	37
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
74789	1	M	SCHEDULED EUTHANASIA	28
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	34
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	34
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74789	14	F	SCHEDULED EUTHANASIA	34
74804	1	M	SCHEDULED EUTHANASIA	37
	2	M	FOUND DEAD	2
	3	M	MISSING	3
	4	M	TAIL BLACK IN COLOR DISTAL END	1
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	28
	7	M	UNEVEN HAIR GROWTH SMALL IN SIZE SMALL IN SIZE UNEVEN HAIR GROWTH DRIED RED MATERIAL AROUND LEFT EYE SCHEDULED EUTHANASIA	14 14 21 21 21 37
	9	F	UMBILICAL HERNIA SCHEDULED EUTHANASIA	14 28
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	DRIED RED MATERIAL AROUND LEFT EYE	21
	12	F	DRIED RED MATERIAL AROUND LEFT EYE	21
			DRIED RED MATERIAL AROUND NOSE SMALL IN SIZE UMBILICAL HERNIA FOUND DEAD	21 21 21 26
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	FOUND DEAD	4
	15	F	FOUND DEAD	2
	16	F	FOUND DEAD	3

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74808	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	SCHEDULED EUTHANASIA	28	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	SCHEDULED EUTHANASIA	28	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	28	
	10	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	CULLED ON SCHEDULED DAY	4	
	74810	1	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	28
		4	M	CULLED ON SCHEDULED DAY	4
5		M	CULLED ON SCHEDULED DAY	4	
6		M	SCHEDULED EUTHANASIA	28	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	28	
10		M	CULLED ON SCHEDULED DAY	4	
11		F	CULLED ON SCHEDULED DAY	4	
12		M	CULLED ON SCHEDULED DAY	4	
13		F	SCHEDULED EUTHANASIA	28	
14		F	CULLED ON SCHEDULED DAY	4	
15		F	SCHEDULED EUTHANASIA	28	
17		F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74826	1	M	FOUND DEAD	0	
	2	M	UNEVEN HAIR GROWTH	21	
			SCHEDULED EUTHANASIA	37	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	37	
	6	M	SCHEDULED EUTHANASIA	28	
	7	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	37	
	10	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	74829	1	M	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	28
3		M	CULLED ON SCHEDULED DAY	4	
4		M	SCHEDULED EUTHANASIA	28	
6		M	SCHEDULED EUTHANASIA	28	
7		F	SCHEDULED EUTHANASIA	28	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	SCHEDULED EUTHANASIA	28	
14		F	CULLED ON SCHEDULED DAY	4	
15		F	SCHEDULED EUTHANASIA	28	
16		F	CULLED ON SCHEDULED DAY	4	
17		F	SMALL IN SIZE	1	
			MISSING	2	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74840	1	M	SCHEDULED EUTHANASIA	28
74841	1	M	FOUND DEAD	0
	3	M	SCHEDULED EUTHANASIA	28
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	28
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	28
	11	M	SCHEDULED EUTHANASIA	28
	13	F	SCHEDULED EUTHANASIA	28
	14	F	CULLED ON SCHEDULED DAY	4
74844	1	M	SCHEDULED EUTHANASIA	28
	2	M	SCHEDULED EUTHANASIA	36
	3	M	SCHEDULED EUTHANASIA	36
	6	F	SCHEDULED EUTHANASIA	28
74845	2	M	SCHEDULED EUTHANASIA	28
	4	F	SCHEDULED EUTHANASIA	37
	5	F	SCHEDULED EUTHANASIA	28
	6	F	CULLED ON SCHEDULED DAY	4
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	37
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	37

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74854	1	F	FOUND DEAD	0	
	3	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	SCHEDULED EUTHANASIA	37	
	7	M	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	37	
	11	F	SCHEDULED EUTHANASIA	37	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	CULLED ON SCHEDULED DAY	4	
	74864	1	M	SCHEDULED EUTHANASIA	28
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
4		M	CULLED ON SCHEDULED DAY	4	
5		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	CULLED ON SCHEDULED DAY	4	
9		M	SCHEDULED EUTHANASIA	28	
10		M	SCHEDULED EUTHANASIA	28	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	28	
13		F	SCHEDULED EUTHANASIA	28	
14		F	CULLED ON SCHEDULED DAY	4	
16	F	FOUND DEAD	2		
17	F	SCHEDULED EUTHANASIA	28		

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

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INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74867	2	M	SCHEDULED EUTHANASIA	28
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28
	6	F	SCHEDULED EUTHANASIA	28
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	28
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74742	1	M	SCHEDULED EUTHANASIA	28
	2	F	CULLED ON SCHEDULED DAY	4
	4	F	SCHEDULED EUTHANASIA	28
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	28
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	28
	10	F	SCHEDULED EUTHANASIA	28
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	28
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
	74746	1	M	SCHEDULED EUTHANASIA
2		M	SCHEDULED EUTHANASIA	28
3		M	SCHEDULED EUTHANASIA	28
4		M	CULLED ON SCHEDULED DAY	4
5		M	CULLED ON SCHEDULED DAY	4
7		M	FOUND DEAD	3
8		F	CULLED ON SCHEDULED DAY	4
9		F	CULLED ON SCHEDULED DAY	4
11		F	SCHEDULED EUTHANASIA	28
12		F	FOUND DEAD	7
13		F	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74746	14	F	FOUND DEAD	2
	15	F	FOUND DEAD	1
74753	1	F	FOUND DEAD	0
	3	M	SCHEDULED EUTHANASIA	28
	5	F	CULLED ON SCHEDULED DAY	4
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	28
	9	F	SCHEDULED EUTHANASIA	28
	10	F	FOUND DEAD	1
	11	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	28
	14	F	SCHEDULED EUTHANASIA	28
	15	F	CULLED ON SCHEDULED DAY	4
74761	1	M	MISSING	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	UNEVEN HAIR GROWTH	21
			SCHEDULED EUTHANASIA	37
	5	M	SCHEDULED EUTHANASIA	28
	6	M	MISSING	1
	7	M	UNEVEN HAIR GROWTH	21
			SCHEDULED EUTHANASIA	37
8	M	CULLED ON SCHEDULED DAY	4	
9	M	SUBCUTANEOUS HEMORRHAGE(S) VENTRAL NECK AREA	1	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74761	9	M	UNEVEN HAIR GROWTH	21	
	10	M	MISSING	3	
	11	F	MISSING	7	
	12	F	UNEVEN HAIR GROWTH	21	
	13	F	UNEVEN HAIR GROWTH	21	
			SCHEDULED EUTHANASIA	28	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	MISSING	1	
	16	F	UNEVEN HAIR GROWTH	21	
			SCHEDULED EUTHANASIA	37	
	74762	1	M	SCHEDULED EUTHANASIA	28
		2	M	SCHEDULED EUTHANASIA	28
		3	M	SCHEDULED EUTHANASIA	28
		5	M	CULLED ON SCHEDULED DAY	4
		6	M	CULLED ON SCHEDULED DAY	4
		7	M	CULLED ON SCHEDULED DAY	4
8		F	SCHEDULED EUTHANASIA	28	
9		F	SCHEDULED EUTHANASIA	28	
10		F	SCHEDULED EUTHANASIA	28	
12		F	MISSING	1	
13		F	CULLED ON SCHEDULED DAY	4	
74765		1	M	FOUND DEAD	11
		2	F	FOUND DEAD	12
	3	F	FOUND DEAD	12	
74782	1	M	FOUND DEAD	20	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74782	2	M	CULLED ON SCHEDULED DAY	4
	3	M	UNEVEN HAIR GROWTH	21
			SCHEDULED EUTHANASIA	28
	4	M	UNEVEN HAIR GROWTH	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	UNEVEN HAIR GROWTH	21
			FOUND DEAD	29
	9	F	UNEVEN HAIR GROWTH	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	UNEVEN HAIR GROWTH	21
			SCHEDULED EUTHANASIA	28
	12	F	CULLED ON SCHEDULED DAY	4
13	F	UNEVEN HAIR GROWTH	21	
		SCHEDULED EUTHANASIA	28	
14	F	FOUND DEAD	12	
74785	1	M	SCHEDULED EUTHANASIA	28
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	28
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	28
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74785	13	F	SCHEDULED EUTHANASIA	28
	14	F	SCHEDULED EUTHANASIA	28
	15	F	CULLED ON SCHEDULED DAY	4
74790	1	M	SCHEDULED EUTHANASIA	37
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	28
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	FOUND DEAD	1
	8	M	CULLED ON SCHEDULED DAY	4
	10	M	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	37
	12	F	FOUND DEAD	1
	13	F	CULLED ON SCHEDULED DAY	4
74796	16	F	SCHEDULED EUTHANASIA	28
	17	F	FOUND DEAD	3
74796	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	28
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28
	6	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	28
	10	M	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4

ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74796	12	F	SCHEDULED EUTHANASIA	28
	13	F	SCHEDULED EUTHANASIA	28
	14	F	SCHEDULED EUTHANASIA	28
74797	1	M	SCHEDULED EUTHANASIA	37
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	28
	7	M	MISSING	6
	8	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	37
	11	F	SCHEDULED EUTHANASIA	37
	13	F	SCHEDULED EUTHANASIA	28
74798	1	M	SCHEDULED EUTHANASIA	28
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	28
	5	M	FOUND DEAD	5
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	28
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	28
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74802	1	M	SCHEDULED EUTHANASIA	28	
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	28	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	74805	1	M	SENT TO NECROPSY DUE TO DEATH OF DAM	0
		2	M	SENT TO NECROPSY DUE TO DEATH OF DAM	0
		3	M	SENT TO NECROPSY DUE TO DEATH OF DAM	0
4		M	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
5		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
6		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
7		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
8		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
9		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
10		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
11		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
12		F	SENT TO NECROPSY DUE TO DEATH OF DAM	0	
74809	1	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74809	2	M	SCHEDULED EUTHANASIA	37	
	3	M	SCHEDULED EUTHANASIA	37	
	4	F	SCHEDULED EUTHANASIA	28	
	5	F	CULLED ON SCHEDULED DAY	4	
	6	F	SCHEDULED EUTHANASIA	37	
	7	F	CULLED ON SCHEDULED DAY	4	
	10	M	SCHEDULED EUTHANASIA	28	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	37	
	74812	1	M	MISSING	9
		2	M	MISSING	14
		3	M	MISSING	10
4		M	FOUND DEAD	14	
5		M	MISSING	3	
6		F	CULLED ON SCHEDULED DAY	4	
7		F	MISSING	9	
8		F	MISSING	6	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	MISSING	2	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	MISSING	14	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	MISSING	12	
15		F	CULLED ON SCHEDULED DAY	4	
74816	1	M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74816	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	6	M	MISSING	1	
	7	M	SCHEDULED EUTHANASIA	28	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	28	
	11	F	SCHEDULED EUTHANASIA	28	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	74819	1	M	SCHEDULED EUTHANASIA	37
		2	M	SCHEDULED EUTHANASIA	28
		4	M	SCHEDULED EUTHANASIA	37
5		M	CULLED ON SCHEDULED DAY	4	
6		F	SCHEDULED EUTHANASIA	37	
7		F	CULLED ON SCHEDULED DAY	4	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	UMBILICAL HERNIA	4	
11		F	SCHEDULED EUTHANASIA	37	
12		F	SCHEDULED EUTHANASIA	28	
13		F	CULLED ON SCHEDULED DAY	4	
74823		2	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74823	3	M	SCHEDULED EUTHANASIA	37	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	SCHEDULED EUTHANASIA	37	
	6	M	SCHEDULED EUTHANASIA	28	
	7	F	SCHEDULED EUTHANASIA	28	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	37	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	74824	1	M	SCHEDULED EUTHANASIA	28
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	MISSING	10
4		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	SCHEDULED EUTHANASIA	37	
8		M	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	37	
10		F	SCHEDULED EUTHANASIA	28	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	APPARENT OPACITY RIGHT EYE	21	
			APPARENT OPACITY RIGHT EYE	35	
			RIGHT EYE SMALL IN SIZE	35	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74824	14	F	SCHEDULED EUTHANASIA	37	
74835	1	M	SCHEDULED EUTHANASIA	28	
	2	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	8	F	FOUND DEAD MECHANICAL INJURY	11	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	28	
	74838	1	M	CULLED ON SCHEDULED DAY	4
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
4		M	FOUND DEAD	1	
5		M	SCHEDULED EUTHANASIA	28	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	SCHEDULED EUTHANASIA	28	
9		M	SCHEDULED EUTHANASIA	28	
10		F	SCHEDULED EUTHANASIA	28	
12		F	SCHEDULED EUTHANASIA	28	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	28	
15		F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74838	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
74839	1	M	FOUND DEAD	0
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	28
	8	F	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	28
	10	F	SCHEDULED EUTHANASIA	28
	11	M	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	FOUND DEAD	1
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	SCHEDULED EUTHANASIA	28
	74846	1	M	FOUND DEAD
2		M	SCHEDULED EUTHANASIA	28
4		M	SCHEDULED EUTHANASIA	28
5		M	SCHEDULED EUTHANASIA	28
6		M	CULLED ON SCHEDULED DAY	4
8		F	SCHEDULED EUTHANASIA	28
9		F	SCHEDULED EUTHANASIA	28
10		F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74846	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
74856	1	M	SCHEDULED EUTHANASIA	28
	2	M	SCHEDULED EUTHANASIA	28
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	28
	5	M	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	28
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	FOUND DEAD	3
	12	F	SCHEDULED EUTHANASIA	28
	13	F	SCHEDULED EUTHANASIA	28
	14	F	CULLED ON SCHEDULED DAY	4
74859	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
	1	M	SCHEDULED EUTHANASIA	28
	2	M	SCHEDULED EUTHANASIA	37
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	37
5	M	CULLED ON SCHEDULED DAY	4	
6	M	SMALL IN SIZE	4	
			SMALL IN SIZE	7

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74859	6	M	SMALL IN SIZE	14
			SMALL IN SIZE	21
			SMALL IN SIZE	35
	7	F	SCHEDULED EUTHANASIA	28
			CULLED ON SCHEDULED DAY	4
			SCHEDULED EUTHANASIA	37
			CULLED ON SCHEDULED DAY	4
			CULLED ON SCHEDULED DAY	4
CULLED ON SCHEDULED DAY			4	
MISSING			1	
74861	1	M	SCHEDULED EUTHANASIA	28
			SCHEDULED EUTHANASIA	37
			SCHEDULED EUTHANASIA	28
74863	1	M	SCHEDULED EUTHANASIA	37
			SCHEDULED EUTHANASIA	28
	3	M	CULLED ON SCHEDULED DAY	4
			SCHEDULED EUTHANASIA	37
	6	F	CULLED ON SCHEDULED DAY	4
			CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	37
			CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
			CULLED ON SCHEDULED DAY	4
12	F	SCHEDULED EUTHANASIA	28	
		SCHEDULED EUTHANASIA	28	
74869	1	M	SCHEDULED EUTHANASIA	28
			SCHEDULED EUTHANASIA	28
			SUBCUTANEOUS HEMORRHAGE(S) VENTRAL NECK AREA	1

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 169 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74869	5	F	SCHEDULED EUTHANASIA	28
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	28
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	28
	10	F	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74738	1	M	FOUND DEAD	0	
	3	M	SCHEDULED EUTHANASIA	37	
	4	M	SCHEDULED EUTHANASIA	37	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	28	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	M	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	13	F	SCHEDULED EUTHANASIA	28	
	14	M	CULLED ON SCHEDULED DAY	4	
	74739	1	M	SCHEDULED EUTHANASIA	28
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	28
5		M	CULLED ON SCHEDULED DAY	4	
6		M	SCHEDULED EUTHANASIA	28	
7		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	SCHEDULED EUTHANASIA	28	
11		M	CULLED ON SCHEDULED DAY	4	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	SCHEDULED EUTHANASIA	28	
14		F	SCHEDULED EUTHANASIA	28	
15		M	CULLED ON SCHEDULED DAY	4	
74743		1	F	FOUND DEAD	0
		2	M	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74743	3	M	CULLED ON SCHEDULED DAY	4	
	5	F	SCHEDULED EUTHANASIA	28	
	6	F	SCHEDULED EUTHANASIA	28	
	7	F	FOUND DEAD	3	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	28	
	11	M	SCHEDULED EUTHANASIA	28	
	12	M	SCHEDULED EUTHANASIA	28	
	13	M	CULLED ON SCHEDULED DAY	4	
	74744	1	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	CULLED ON SCHEDULED DAY	4
6		M	SCHEDULED EUTHANASIA	34	
7		M	SCHEDULED EUTHANASIA	28	
8		M	CULLED ON SCHEDULED DAY	4	
9		M	CULLED ON SCHEDULED DAY	4	
10		M	CULLED ON SCHEDULED DAY	4	
11		M	SCHEDULED EUTHANASIA	34	
12		M	CULLED ON SCHEDULED DAY	4	
13		F	SCHEDULED EUTHANASIA	34	
14		F	SCHEDULED EUTHANASIA	34	
15		F	SCHEDULED EUTHANASIA	28	
74748		1	M	SCHEDULED EUTHANASIA	37
	3	M	MISSING	1	
	4	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74748	6	M	CULLED ON SCHEDULED DAY	4	
	7	F	SCHEDULED EUTHANASIA	28	
	8	M	SCHEDULED EUTHANASIA	28	
	9	F	SCHEDULED EUTHANASIA	37	
	10	F	SCHEDULED EUTHANASIA	37	
	11	F	SUBCUTANEOUS HEMORRHAGE(S) DORSAL THORACIC AREA	4	
74752	1	M	MISSING	4	
	2	M	SCHEDULED EUTHANASIA	28	
	3	M	MISSING	3	
	4	M	SCHEDULED EUTHANASIA	28	
	6	F	CULLED ON SCHEDULED DAY	4	
	7	F	SCHEDULED EUTHANASIA	28	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	74766	1	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
4		M	CULLED ON SCHEDULED DAY	4	
5		M	SCHEDULED EUTHANASIA	37	
6		M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74766	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	37	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	28	
	11	F	SMALL IN SIZE CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	37	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	37	
	74780	1	M	SCHEDULED EUTHANASIA	37
		2	M	SCHEDULED EUTHANASIA	28
		5	F	SCHEDULED EUTHANASIA	37
		6	F	CULLED ON SCHEDULED DAY	4
		7	F	SCHEDULED EUTHANASIA	28
		8	F	CULLED ON SCHEDULED DAY	4
		9	F	CULLED ON SCHEDULED DAY	4
10		F	SCHEDULED EUTHANASIA	37	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	37	
74791		1	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	37	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	F	SCHEDULED EUTHANASIA	37	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74791	9	F	FOUND DEAD	2
	10	F	SCHEDULED EUTHANASIA	37
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
74793	1	M	SCHEDULED EUTHANASIA	28
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	28
	6	M	SCHEDULED EUTHANASIA	28
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	28
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
	13	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
16	F	SCHEDULED EUTHANASIA	28	
17	F	CULLED ON SCHEDULED DAY	4	
74795	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	37
	4	M	SCHEDULED EUTHANASIA	37
	5	M	SCHEDULED EUTHANASIA	28
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74795	10	F	SCHEDULED EUTHANASIA	37
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	37
	14	F	SCHEDULED EUTHANASIA	28
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
74799	1	M	SCHEDULED EUTHANASIA	28
	2	M	SCHEDULED EUTHANASIA	37
	3	M	DRIED BROWN MATTING AROUND MOUTH (SLIGHT), UROGENITAL AREA (MODERATE)	35
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	37
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	FOUND DEAD PARTIALLY CANNIBALIZED	1
	9	M	MISSING	3
	10	F	SCHEDULED EUTHANASIA	37
	11	F	SCHEDULED EUTHANASIA	37
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCABBING DORSAL HEAD	14
			SCHEDULED EUTHANASIA	28
	15	F	MISSING	1

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74801	1	M	FOUND DEAD	0	
	2	F	FOUND DEAD	0	
	3	F	FOUND DEAD	0	
	4	F	FOUND DEAD	0	
	5	F	FOUND DEAD	0	
	6	M	FOUND DEAD	1	
	7	M	SCHEDULED EUTHANASIA	28	
	8	M	SCHEDULED EUTHANASIA	28	
	9	M	SCHEDULED EUTHANASIA	28	
	11	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	15	F	SCHEDULED EUTHANASIA	28	
	74806	1	M	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	28
4		M	CULLED ON SCHEDULED DAY	4	
5		M	CULLED ON SCHEDULED DAY	4	
7		M	SCHEDULED EUTHANASIA	28	
8		F	SCHEDULED EUTHANASIA	28	
9		F	SCHEDULED EUTHANASIA	28	
10		F	SCHEDULED EUTHANASIA	28	
12		F	MISSING	3	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	MISSING	1	
15		F	CULLED ON SCHEDULED DAY	4	
74820		1	M	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74820	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	28	
	5	M	SCHEDULED EUTHANASIA	28	
	6	F	CULLED ON SCHEDULED DAY	4	
	7	F	SCHEDULED EUTHANASIA	28	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	28	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	SCHEDULED EUTHANASIA	28	
	74821	1	M	SCHEDULED EUTHANASIA	37
		3	M	SCHEDULED EUTHANASIA	28
		4	M	SCHEDULED EUTHANASIA	37
5		M	CULLED ON SCHEDULED DAY	4	
6		M	SCHEDULED EUTHANASIA	37	
8		F	SCHEDULED EUTHANASIA	28	
74830	1	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	37	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	37	
	9	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74830	10	M	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	37
	14	F	SCHEDULED EUTHANASIA	37
	15	F	SCHEDULED EUTHANASIA	28
74831	1	M	SCHEDULED EUTHANASIA	37
	3	M	FOUND DEAD	6
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	F	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	28
	9	M	CULLED ON SCHEDULED DAY	4
	10	M	SCHEDULED EUTHANASIA	28
	11	M	CULLED ON SCHEDULED DAY	4
	13	F	FOUND DEAD	1
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	37
	17	F	CULLED ON SCHEDULED DAY	4
18	F	SCHEDULED EUTHANASIA	37	
19	F	CULLED ON SCHEDULED DAY	4	
20	F	CULLED ON SCHEDULED DAY	4	
74834	1	F	FOUND DEAD	0
	2	M	SCHEDULED EUTHANASIA	28
	3	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74834	5	M	SCHEDULED EUTHANASIA	28	
	6	M	SCHEDULED EUTHANASIA	28	
	8	F	SCHEDULED EUTHANASIA	28	
	9	F	SCHEDULED EUTHANASIA	28	
	10	F	FOUND DEAD	28	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
74847	1	F	FOUND DEAD	0	
	2	M	CULLED ON SCHEDULED DAY	4	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	SCHEDULED EUTHANASIA	28	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	28	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	SCHEDULED EUTHANASIA	28	
	74848	1	M	SCHEDULED EUTHANASIA	28
		2	M	SCHEDULED EUTHANASIA	28
5		F	CULLED ON SCHEDULED DAY	4	
6		F	SCHEDULED EUTHANASIA	28	
7		F	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74848	8	F	SCHEDULED EUTHANASIA	28	
	9	F	SCHEDULED EUTHANASIA	28	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
74849	1	M	SCHEDULED EUTHANASIA	37	
	2	M	SCHEDULED EUTHANASIA	37	
	4	M	SCHEDULED EUTHANASIA	28	
	5	F	SCHEDULED EUTHANASIA	28	
	6	F	CULLED ON SCHEDULED DAY	4	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	37	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	37	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	CULLED ON SCHEDULED DAY	4	
	74850	1	M	CULLED ON SCHEDULED DAY	4
		2	M	CULLED ON SCHEDULED DAY	4
3		M	SCHEDULED EUTHANASIA	28	
4		M	SCHEDULED EUTHANASIA	28	
6		M	SCHEDULED EUTHANASIA	28	
7		M	CULLED ON SCHEDULED DAY	4	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74850	13	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	28
74855	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	28
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	28
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	28
	10	F	SCHEDULED EUTHANASIA	28
	12	F	SCHEDULED EUTHANASIA	28
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SMALL IN SIZE	1
			SCHEDULED EUTHANASIA	28
	16	F	CULLED ON SCHEDULED DAY	4
	74858	1	F	FILAMENTOUS TAIL
FILAMENTOUS TAIL				4
CULLED ON SCHEDULED DAY				4
FILAMENTOUS TAIL				0
2		M	SCHEDULED EUTHANASIA	37
3		M	CULLED ON SCHEDULED DAY	4
5		M	CULLED ON SCHEDULED DAY	4
6	M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74858	7	M	SCHEDULED EUTHANASIA	37	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	37	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	37	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	17	F	SCHEDULED EUTHANASIA	28	
	74868	1	M	FOUND DEAD	5
		2	M	SMALL IN SIZE	28
		3	M	CULLED ON SCHEDULED DAY	4
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	FOUND DEAD	7
		6	M	CULLED ON SCHEDULED DAY	4
		7	M	CULLED ON SCHEDULED DAY	4
8		M	MISSING	7	
9		M	CULLED ON SCHEDULED DAY	4	
10		F	SUBCUTANEOUS HEMORRHAGE(S) DORSAL NOSE	1	
			CULLED ON SCHEDULED DAY	4	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	MISSING	1	
14		F	CULLED ON SCHEDULED DAY	4	
15	F	CULLED ON SCHEDULED DAY	4		

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74868	16	F	UNEVEN HAIR GROWTH	21
			SMALL IN SIZE	28
			SCHEDULED EUTHANASIA	28
	17	F	SMALL IN SIZE	28
			SCHEDULED EUTHANASIA	37
			CULLED ON SCHEDULED DAY	4
			FOUND DEAD	10
20	F	SMALL IN SIZE	28	
		CULLED ON SCHEDULED DAY	4	
74871	1	M	FOUND DEAD	0
	2	F	FOUND DEAD	0
	3	F	SCHEDULED EUTHANASIA	28
	4	M	SCHEDULED EUTHANASIA	28
	5	M	SCHEDULED EUTHANASIA	28
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	28
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	28

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74747	1	M	SCHEDULED EUTHANASIA	28	
	2	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	28	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	CULLED ON SCHEDULED DAY	4	
	18	F	CULLED ON SCHEDULED DAY	4	
	19	F	CULLED ON SCHEDULED DAY	4	
	20	F	CULLED ON SCHEDULED DAY	4	
	21	F	FOUND DEAD	1	
	74751	1	M	SCHEDULED EUTHANASIA	28
		3	M	CULLED ON SCHEDULED DAY	4
		4	M	SCHEDULED EUTHANASIA	37
6		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	LACERATION(S) RIGHT INGUINAL AREA	1	
			LACERATION(S) RIGHT INGUINAL AREA	4	
			LACERATION(S) RIGHT INGUINAL AREA	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74751	8	M	SMALL IN SIZE	4	
			CULLED ON SCHEDULED DAY	4	
	9	M	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	37	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	37	
	14	F	SCHEDULED EUTHANASIA	28	
74754	1	M	CULLED ON SCHEDULED DAY	4	
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	SCHEDULED EUTHANASIA	37	
	8	M	SCHEDULED EUTHANASIA	37	
	10	M	SCHEDULED EUTHANASIA	28	
	11	M	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	37	
	13	F	SCHEDULED EUTHANASIA	37	
	14	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	28	
	74755	1	F	TAIL MISSING	1
				TAIL MISSING	4
			TAIL MISSING	7	
			TAIL MISSING	14	
			TAIL MISSING	21	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY		
74755	1	F	TAIL MISSING	28		
			TAIL MISSING	32		
			TAIL MISSING	28		
			TAIL MISSING	35		
			TAIL MISSING	37		
			TAIL MISSING	0		
	2	M	SCHEDULED EUTHANASIA	37		
			SCHEDULED EUTHANASIA	37		
			SCHEDULED EUTHANASIA	28		
			CULLED ON SCHEDULED DAY	4		
			CULLED ON SCHEDULED DAY	4		
			CULLED ON SCHEDULED DAY	4		
9	F	SCHEDULED EUTHANASIA	37			
		MISSING	1			
		SCHEDULED EUTHANASIA	37			
		SCHEDULED EUTHANASIA	28			
		74768	1	M	CULLED ON SCHEDULED DAY	4
					CULLED ON SCHEDULED DAY	4
SCHEDULED EUTHANASIA	28					
CULLED ON SCHEDULED DAY	4					
SCHEDULED EUTHANASIA	28					
SCHEDULED EUTHANASIA	28					
CULLED ON SCHEDULED DAY	4					
SCHEDULED EUTHANASIA	28					
CULLED ON SCHEDULED DAY	4					
CULLED ON SCHEDULED DAY	4					
SCHEDULED EUTHANASIA	28					
CULLED ON SCHEDULED DAY	4					
CULLED ON SCHEDULED DAY	4					

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74768	14	F	SCHEDULED EUTHANASIA	28
74769	1	F	FOUND DEAD	0
	2	M	MISSING	15
	3	M	MISSING	4
	4	M	MISSING	14
	5	M	FOUND DEAD	1
	6	M	SCHEDULED EUTHANASIA	28
	9	F	SCHEDULED EUTHANASIA	28
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	28
	13	F	SCHEDULED EUTHANASIA	28
	14	F	MISSING	4
	15	F	SUBCUTANEOUS HEMORRHAGE(S) SMALL IN SIZE	1 4
			CULLED ON SCHEDULED DAY	4
	16	F	MISSING	1
	17	F	CULLED ON SCHEDULED DAY	4
74770	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	37
	3	M	SCHEDULED EUTHANASIA	37
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	28
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74770	12	F	SCHEDULED EUTHANASIA	28	
	13	F	SCHEDULED EUTHANASIA	37	
	14	F	CULLED ON SCHEDULED DAY	4	
74784	1	M	FOUND DEAD	2	
	2	M	FOUND DEAD	2	
	3	M	FOUND DEAD	2	
	4	F	FOUND DEAD	2	
	5	F	FOUND DEAD	2	
74786	1	U	FOUND DEAD	0	
			PARTIALLY CANNIBALIZED		
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	37	
	6	M	SCHEDULED EUTHANASIA	28	
	8	M	CULLED ON SCHEDULED DAY	4	
	9	M	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	12	F	SCHEDULED EUTHANASIA	28	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	37	
	15	F	CULLED ON SCHEDULED DAY	4	
	74787	1	M	SCHEDULED EUTHANASIA	28
		2	M	CULLED ON SCHEDULED DAY	4
3		M	SCHEDULED EUTHANASIA	28	
4		M	SCHEDULED EUTHANASIA	28	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74787	5	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	F	SCHEDULED EUTHANASIA	28	
	9	F	CULLED ON SCHEDULED DAY	4	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	SCHEDULED EUTHANASIA	28	
	74792	1	M	SCHEDULED EUTHANASIA	28
		2	M	CULLED ON SCHEDULED DAY	4
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	CULLED ON SCHEDULED DAY	4
		6	M	SCHEDULED EUTHANASIA	28
		7	M	SCHEDULED EUTHANASIA	28
8		M	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	28	
10		F	SCHEDULED EUTHANASIA	28	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	CULLED ON SCHEDULED DAY	4	
15		F	CULLED ON SCHEDULED DAY	4	
16		F	CULLED ON SCHEDULED DAY	4	
74803		1	M	FOUND DEAD LABORED RESPIRATION	1 0
		2	M	FOUND DEAD LABORED RESPIRATION	1 0

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74803	3	M	SMALL IN SIZE	14
			FOUND DEAD	15
	4	M	FOUND DEAD	2
	5	M	MISSING	1
	6	M	FOUND DEAD	1
	7	M	FOUND DEAD	1
	8	F	FOUND DEAD	1
	9	F	SMALL IN SIZE	14
			FOUND DEAD	16
	10	F	FOUND DEAD	2
	11	F	SMALL IN SIZE	14
			FOUND DEAD	16
	12	F	FOUND DEAD	1
	13	F	FOUND DEAD	1
	14	F	FOUND DEAD	14
15	F	MISSING	2	
74807	1	M	TAIL MISSING	1
			DISTAL END	
			TAIL MISSING	4
			DISTAL END	
			TAIL MISSING	7
			DISTAL END	
			TAIL MISSING	14
			DISTAL END	
			TAIL MISSING	21
		DISTAL END		
		TAIL MISSING	28	
		DISTAL END		

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74807	1	M	SCHEDULED EUTHANASIA	28	
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	28	
	6	M	SCHEDULED EUTHANASIA	28	
	7	F	MISSING	2	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	28	
	12	F	SCHEDULED EUTHANASIA	28	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	CULLED ON SCHEDULED DAY	4	
	74811	2	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
4		M	CULLED ON SCHEDULED DAY	4	
5		M	SCHEDULED EUTHANASIA	28	
6		M	SCHEDULED EUTHANASIA	28	
7		M	SCHEDULED EUTHANASIA	28	
8		M	CULLED ON SCHEDULED DAY	4	
9		M	CULLED ON SCHEDULED DAY	4	
10		M	CULLED ON SCHEDULED DAY	4	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	28	
14		F	SCHEDULED EUTHANASIA	28	
15		F	SCHEDULED EUTHANASIA	28	
74813		1	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74813	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	SCHEDULED EUTHANASIA	28	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	SCHEDULED EUTHANASIA	37	
	9	M	SCHEDULED EUTHANASIA	37	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	37	
	74817	1	M	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	28
		3	M	CULLED ON SCHEDULED DAY	4
5		M	SCHEDULED EUTHANASIA	37	
6		M	SCHEDULED EUTHANASIA	37	
7		F	CULLED ON SCHEDULED DAY	4	
8		F	SCHEDULED EUTHANASIA	28	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
11		F	SCHEDULED EUTHANASIA	37	
12		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	37	
74822		1	M	FOUND DEAD	0
		2	M	FOUND DEAD	0
	3	F	FOUND DEAD	0	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74822	4	M	SCHEDULED EUTHANASIA	37	
	5	F	CULLED ON SCHEDULED DAY	4	
	6	F	SCHEDULED EUTHANASIA	37	
	7	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	16	M	SCHEDULED EUTHANASIA	28	
	74827	1	M	FOUND DEAD PARTIALLY CANNIBALIZED	0
		2	M	SCHEDULED EUTHANASIA	37
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	CULLED ON SCHEDULED DAY	4
		6	M	SCHEDULED EUTHANASIA	28
		7	M	SCHEDULED EUTHANASIA	37
8		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	SCHEDULED EUTHANASIA	28	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	37	
15		F	SCHEDULED EUTHANASIA	37	
16		F	CULLED ON SCHEDULED DAY	4	
74832		1	M	FOUND DEAD	0

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74832	2	M	CULLED ON SCHEDULED DAY	4	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	SCHEDULED EUTHANASIA	28	
	6	F	SCHEDULED EUTHANASIA	28	
	8	M	CULLED ON SCHEDULED DAY	4	
	9	M	SCHEDULED EUTHANASIA	28	
	10	M	CULLED ON SCHEDULED DAY	4	
	11	M	SCHEDULED EUTHANASIA	28	
	12	M	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	CULLED ON SCHEDULED DAY	4	
	15	F	SCHEDULED EUTHANASIA	28	
	16	F	SCHEDULED EUTHANASIA	28	
	74833	1	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	37
		4	M	CULLED ON SCHEDULED DAY	4
5		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	SCHEDULED EUTHANASIA	37	
8		M	SCHEDULED EUTHANASIA	28	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	SCHEDULED EUTHANASIA	37	
12		F	SCHEDULED EUTHANASIA	28	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	CULLED ON SCHEDULED DAY	4	
15		F	SCHEDULED EUTHANASIA	37	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74836	1	M	FOUND DEAD	0	
	2	M	SCHEDULED EUTHANASIA	28	
	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	28	
	7	M	SCHEDULED EUTHANASIA	28	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	28	
	14	F	SCHEDULED EUTHANASIA	28	
	15	F	CULLED ON SCHEDULED DAY	4	
	74853	1	M	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	28
		3	M	CULLED ON SCHEDULED DAY	4
4		M	MISSING	2	
5		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	SCHEDULED EUTHANASIA	28	
9		M	SCHEDULED EUTHANASIA	28	
10		F	CULLED ON SCHEDULED DAY	4	
13		F	FOUND DEAD	3	
14		F	SCHEDULED EUTHANASIA	28	
15		F	SCHEDULED EUTHANASIA	28	
16		F	CULLED ON SCHEDULED DAY	4	
17		F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74857	1	M	SCHEDULED EUTHANASIA	28	
	2	M	CULLED ON SCHEDULED DAY	4	
	3	M	SCHEDULED EUTHANASIA	28	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	FOUND DEAD	2	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	28	
	11	F	SCHEDULED EUTHANASIA	28	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	CULLED ON SCHEDULED DAY	4	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	28	
	74860	1	M	SCHEDULED EUTHANASIA LABORED RESPIRATION	37 0
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	SCHEDULED EUTHANASIA	28
6		F	SCHEDULED EUTHANASIA	37	
7		F	SCHEDULED EUTHANASIA	28	
9		F	SCHEDULED EUTHANASIA	37	
10		F	CULLED ON SCHEDULED DAY	4	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	
74862		1	M	SCHEDULED EUTHANASIA	28
		2	M	SCHEDULED EUTHANASIA	37

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74862	3	M	CULLED ON SCHEDULED DAY	4	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	9	M	SCHEDULED EUTHANASIA	37	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	37	
	12	F	FOUND DEAD	37	
			APPARENT MECHANICAL TRAUMA		
	14	F	SCHEDULED EUTHANASIA	28	
	74866	1	M	SUBCUTANEOUS HEMORRHAGE(S) DORSAL ABDOMINAL AREA VENTRAL ABDOMINAL AREA DORSAL THORACIC AREA	1
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	28
4		M	SCHEDULED EUTHANASIA	28	
5		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	28	
10		F	SCHEDULED EUTHANASIA	28	
11		M	SCHEDULED EUTHANASIA	28	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 169 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74866	14	F	SCHEDULED EUTHANASIA	28
	15	F	CULLED ON SCHEDULED DAY	4
74870	1	M	MISSING	2
	2	M	SCHEDULED EUTHANASIA	28
	4	M	SCHEDULED EUTHANASIA	28
	5	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	28
	9	M	SCHEDULED EUTHANASIA	28
	10	M	SCHEDULED EUTHANASIA	28
	11	F	SCHEDULED EUTHANASIA	28

PPOBSv4.03  
12/09/2002

**FINAL REPORT**

Volume 5 of 10  
(Individual Tables 170-176)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 170 - 176**

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74737-01	M	7.0	9.3	13.7	26.4	41.3	75.2		
74737-02	M	7.1	10.4						
74737-03	M	6.7	10.2	14.9	28.2	45.2	85.1	115.5	143.3
74737-04	M	6.9	10.1	14.6	27.5	42.2	81.5		
74737-05	M	6.6	10.0	14.8	27.1	40.2	80.1		
74737-06	F	6.7	9.6						
74737-07	M	7.0	10.3						
74737-08	F	6.8	9.8						
74737-09	F	7.0	10.0	14.7	27.6	44.2	73.9		
74737-10	F	6.7	9.5	13.6	25.9	39.6	65.3	96.7	115.4
74737-11	F	6.5	9.7	14.5	26.9	41.8	74.6		
74737-12	F	6.2	9.1						
74737-13	F	6.4	9.4						
74737-14	F	6.9	10.3	15.3	27.4	39.9	73.1	98.3	118.6
MALES MEAN		6.9	10.1	14.5	27.3	42.2	80.5		
FEMALES MEAN		6.7	9.7	14.5	27.0	41.4	71.7		
74740-02	M	6.8	10.1	14.8	24.7	38.3	75.8	106.1	128.0
74740-03	M	5.3	8.3	11.9	20.9	31.5	63.6		
74740-04	M	7.4	11.0						
74740-05	M	7.1	10.5	15.2	25.0	37.9	71.0		
74740-06	M	7.7	11.0	15.6	26.0	40.4	78.2		
74740-07	F	7.0	10.7	15.1	25.0	39.0	70.4	98.4	119.6
74740-08	F	6.9	10.5	14.9	25.9	42.3	76.2		
74740-09	F	7.1	10.8						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
74740-10 F	6.9	10.7							
74740-11 F	6.6	9.3	13.2	22.7	35.0	63.5			
74740-12 F	6.7	10.2							
74740-13 F	7.5	11.2							
74740-14 F	6.6	10.2	15.1	24.9	37.6	51.6			
MALES MEAN	6.9	10.2	14.4	24.2	37.0	72.2			
FEMALES MEAN	6.9	10.5	14.6	24.6	38.5	65.4			
74757-03 M	7.5	9.7	13.9	24.5	39.3	76.8			
74757-04 M	6.8	7.8							
74757-05 M	7.1	10.1	14.3	25.5	39.8	73.9	99.4	110.7	
74757-06 M	6.4	9.0	13.2	24.8	39.7	78.9			
74757-07 M	7.0	9.4							
74757-08 M	6.8	9.1	12.7	22.7	36.8	71.7	96.0	119.4	
74757-09 M	6.4	8.9							
74757-10 M	7.6	10.1							
74757-11 F	7.0	9.4	13.6	25.6	39.6	72.5	95.9	114.8	
74757-12 F	6.4	8.8	12.2	22.0	33.5	66.1			
74757-13 F	6.3	8.6	12.3	22.5	35.5	65.4			
74757-14 F	5.7	7.7	11.0	20.6	33.0	61.7			
74757-15 F	5.9	8.2							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
-----									
74757-16 F	6.9	9.4							
MALES MEAN	7.0	9.3	13.5	24.4	38.9	75.3			
FEMALES MEAN	6.4	8.7	12.3	22.7	35.4	66.4			
74759-01 M	7.0	9.8							
74759-02 M	6.7	9.4	12.8	23.1	38.3	71.4	95.5	117.4	
74759-03 M	6.9	9.5							
74759-04 M	7.5	10.0	14.0	25.5	39.9	72.5			
74759-05 M	6.9	9.4	13.2	24.8	38.5	73.5	97.3	123.7	
74759-06 M	6.8	9.7							
74759-07 M	7.1	9.7	14.2	25.8	41.7	78.6			
74759-08 M	6.9	10.0							
74759-09 F	6.9	9.7	13.2	23.8	37.2	63.0	88.1	107.6	
74759-10 F	6.7	9.5	13.4	23.2	35.3	65.4			
74759-11 F	5.4	7.8	10.8	20.0	30.4	56.3			
74759-12 F	6.7	9.6							
74759-13 F	6.3	9.2	13.1	23.6	37.9	70.7			
MALES MEAN	7.0	9.7	13.6	24.8	39.6	74.0			
FEMALES MEAN	6.4	9.2	12.6	22.7	35.2	63.9			
74764-01 M	6.7	10.3							
74764-02 M	6.3	9.4	12.4	25.4	36.6	70.6	103.2	131.8	
74764-03 M	6.3	9.7	13.7	25.2	37.5	73.7			
74764-04 M	6.1	8.6							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74764-05	M	6.4	9.9	13.8	26.0	36.8	72.8		
74764-06	M	5.8	8.6						
74764-07	M	6.1	9.7						
74764-08	M	6.0	8.9	12.4	24.3	34.9	69.7		
74764-09	M	6.0	8.8						
74764-10	F	5.9	8.7	12.5	23.5	34.5	64.3	86.6	111.3
74764-11	F	5.7	9.1						
74764-12	F	5.8	8.9	13.1	24.1	36.2	67.9		
74764-13	F	6.0	9.4						
74764-14	F	5.5	7.9	11.4	22.7	33.2	63.1		
74764-15	F	6.0	9.2						
74764-16	F	6.0	9.4	13.3	25.2	34.8	66.2		
MALES MEAN		6.2	9.3	13.1	25.2	36.5	71.7		
FEMALES MEAN		5.8	8.9	12.6	23.9	34.7	65.4		
74767-01	M	6.7	9.4						
74767-02	M	6.1	8.4						
74767-03	M	6.3	7.7						
74767-04	M	6.4	8.0	12.0	20.9	31.8	61.2		
74767-05	M	6.4	8.1						
74767-06	M	6.0	8.1	11.2	21.0	31.1	59.7		
74767-07	M	6.8	8.3	11.8	22.0	33.0	61.1	78.9	96.3
74767-08	M	6.3	8.6	12.2	21.8	33.1	63.4		
74767-09	M	4.5	6.3						
74767-10	F	6.7	9.0	13.3	23.0	34.9	65.7	89.3	113.2

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
74767-11 F	6.4	8.4	12.1	21.8	32.3	62.3			
74767-12 M	6.6	8.8							
74767-13 F	6.1	7.7							
74767-14 F	6.0	8.6	11.7	22.0	31.6	61.1			
74767-15 F	6.1	8.3							
74767-16 F	5.7	7.4	10.7	20.2	30.6	58.0	70.3	91.3	
MALES MEAN	6.2	8.2	11.8	21.4	32.3	61.4			
FEMALES MEAN	6.2	8.2	12.0	21.8	32.4	61.8			
74772-01 M	7.4	10.1							
74772-02 M	7.2	9.7	13.8	26.3	44.6	77.4	106.9	132.0	
74772-03 M	7.1	9.5	14.1	25.5	40.6	71.1	97.5		
74772-04 M	7.5	10.0							
74772-05 M	8.5	11.2							
74772-06 M	7.0	9.8	14.4	26.8	44.2	76.1			
74772-07 M	6.4								
74772-08 M	8.3	11.1	16.0	28.4	42.6	80.9	107.2	134.0	
74772-09 F	7.1	9.7	14.2	26.9	40.3	72.4	96.1	112.0	
74772-10 F	5.2	7.3	10.7	20.9	31.4	57.9	76.2		
74772-11 F	7.1	9.6	14.5	27.6	44.4	74.9	91.0		
74772-12 F	7.0	9.8							
74772-13 F	7.5	10.0	14.9	27.8	47.2	79.1			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
-----									
74772-14	F	6.9	9.7						
MALES MEAN		7.4	10.2	14.6	26.8	43.0	76.4		
FEMALES MEAN		6.8	9.4	13.6	25.8	40.8	71.1		
74773-02	M	7.5	10.9	16.4	30.0	47.4	89.2	117.0	144.8
74773-03	M	7.0	9.8						
74773-04	M	7.0	9.9	14.6	27.6	43.1	81.4		
74773-05	M	7.9	11.0	16.1	29.7	46.4	88.0		
74773-06	M	6.5	9.0						
74773-07	M	7.0	10.2	15.5	29.5	45.5	83.3		
74773-08	F	6.9	9.2	14.0	28.4	43.9	79.4	103.5	119.1
74773-09	F	6.9	8.7						
74773-10	F	6.8	10.0						
74773-11	F	7.4	10.6	15.9	29.5	46.4	82.2		
74773-12	F	6.8	9.9						
74773-13	F	6.5	10.1						
74773-14	F	6.3	8.7						
74773-15	F	5.7	7.4	11.6	22.1	35.6	65.7	91.7	110.4
74773-16	F	6.0	8.4	12.6	24.4	36.3	62.2		
MALES MEAN		7.2	10.1	15.7	29.2	45.6	85.5		
FEMALES MEAN		6.6	9.2	13.5	26.1	40.6	72.4		
74774-01	F	5.8	7.5						
74774-02	M	6.5	9.1	11.9	24.0	38.7	75.6	102.3	127.6

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74774-03	M	6.2	8.6	11.2	23.2	36.4	71.6	93.7	115.6
74774-04	M	5.7	8.1	9.6	20.1	32.4	62.3		
74774-05	M	6.6	8.4	10.7	21.9	34.0	69.4	90.0	109.5
74774-06	M	6.2	7.5						
74774-07	F	5.9	7.2	8.4	16.5	28.0	54.8		
74774-08	F	6.3	8.7	11.2	22.8	33.7	65.9	88.9	106.7
74774-09	F	5.6	7.5						
74774-10	F	5.8	7.3						
74774-11	F	6.2	7.6						
74774-12	F	5.8	7.2	8.5	18.0	30.2	58.5	80.4	97.4
74774-13	F	6.1	8.8						
74774-14	F	5.6	7.9						
74774-15	F	6.0	7.8	9.9	21.9	34.2	67.4	90.3	107.2
MALES MEAN		6.2	8.3	10.9	22.3	35.4	69.7		
FEMALES MEAN		5.9	7.8	9.5	19.8	31.5	61.7		
74789-01	M	6.8	8.9	12.4	23.4	37.1	72.4		
74789-02	M	7.4	9.4						
74789-03	M	8.1	10.1	13.9	26.7	42.1	78.2	105.7	
74789-04	M	6.8	7.7	9.8	18.9	31.9	61.2	80.2	99.0
74789-05	M	7.4	9.3						
74789-06	M	7.1	9.1	11.2	23.0	38.6	73.8	95.7	
74789-07	M	7.5	9.3						
74789-08	M	7.4	8.5						
74789-09	F	6.9	9.5	12.3	23.6	35.7	66.1	83.8	99.0

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74789-10	F	6.4	8.4	11.9	24.2	38.6	69.9	87.6	103.0
74789-11	F	6.9	9.2						
74789-12	F	6.7	8.6						
74789-13	F	7.0	8.4	11.6	24.4	38.6	73.7		
74789-14	F	6.9	9.0	11.5	23.4	35.3	69.2	89.0	
MALES MEAN		7.3	9.0	11.8	23.0	37.4	71.4		
FEMALES MEAN		6.8	8.9	11.8	23.9	37.1	69.7		
74804-01	M	5.5	6.9	8.8	17.1	28.8	56.8	77.5	96.1
74804-02	M	5.7							
74804-03	M	5.2							
74804-04	M	5.7	7.0	9.0	17.2	29.3	60.0	80.0	97.5
74804-05	M	5.7	7.4						
74804-06	M	5.6	7.4	9.7	19.1	31.6	63.3		
74804-07	M	6.1	5.5	6.4	11.3	22.1	43.4	60.3	72.3
74804-08	F	5.6	7.5	9.5	20.1	32.7	63.7	85.2	103.8
74804-09	F	5.7	6.8	8.6	18.3	30.5	56.5		
74804-10	F	5.9	7.6						
74804-11	F	5.6	6.7	8.7	18.3	30.8	56.8	62.8	82.2
74804-12	F	5.3	6.1	7.4	14.0	17.2			
74804-13	F	5.2	5.7						
74804-14	F	4.7							
74804-15	F	5.0							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
-----									
74804-16 F	5.2								
MALES MEAN	5.6	6.8	8.5	16.2	28.0	55.9			
FEMALES MEAN	5.4	6.7	8.6	17.7	27.8	59.0			
74808-01 M	6.6	9.1	13.2	26.3	43.9	81.2	104.9	126.7	
74808-02 M	6.2	9.1							
74808-03 M	6.5	9.6	13.2	25.1	44.7	77.3			
74808-04 M	6.8	9.3							
74808-05 M	5.6	7.6	10.9	20.3	35.1	61.8			
74808-06 M	6.6	9.2							
74808-07 M	6.6	9.2	12.7	25.4	44.5	80.7			
74808-08 F	6.3	9.0							
74808-09 F	6.1	8.6	12.6	24.9	42.9	73.7			
74808-10 F	6.3	9.3	13.4	23.9	38.0	67.2			
74808-11 F	5.8	8.2	11.7	22.4	40.0	68.4	86.7	106.6	
74808-12 F	6.5	9.0							
74808-13 F	6.0	9.1	12.5	24.2	42.1	73.0	95.5	116.5	
74808-14 F	6.5	9.1							
74808-15 F	6.7	9.0							
MALES MEAN	6.4	9.0	12.5	24.3	42.1	75.3			
FEMALES MEAN	6.3	8.9	12.6	23.9	40.8	70.6			
74810-01 M	7.3	9.1							
74810-02 M	7.7	9.1	11.9	23.3	39.7	69.4	96.0	118.6	

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74810-03	M	7.6	9.4	12.4	21.2	36.0	65.4		
74810-04	M	7.4	9.0						
74810-05	M	6.6	8.5						
74810-06	M	7.8	10.0	13.1	26.2	43.3	75.9		
74810-07	M	7.0	8.7	11.2	20.5	35.9	63.8	88.2	104.2
74810-08	F	7.1	9.0						
74810-09	F	7.1	8.6	11.9	20.4	35.9	63.8		
74810-10	M	7.8	9.8						
74810-11	F	7.1	8.9						
74810-12	M	7.1	8.6						
74810-13	F	7.4	9.2	12.3	22.6	38.8	67.3		
74810-14	F	6.5	7.9						
74810-15	F	7.0	8.7	12.1	23.5	41.8	71.7		
74810-16	F	7.3	8.5	11.4	21.6	35.9	64.5	87.4	105.4
74810-17	F	7.0	8.7						
MALES MEAN		7.4	9.1	12.2	22.8	38.7	68.6		
FEMALES MEAN		7.1	8.7	11.9	22.0	38.1	66.8		
74826-02	M	7.2	9.6	13.2	24.2	37.6	74.5	98.5	122.9
74826-03	M	7.3	10.1						
74826-04	M	7.0	9.2	12.8	23.7	37.5	73.6	94.6	110.2
74826-05	M	7.4	10.2	14.6	25.8	41.5	78.0	105.6	132.3
74826-06	M	7.0	9.0	12.6	24.3	37.4	74.6		
74826-07	F	7.0	9.7						
74826-08	F	7.3	9.8	13.3	23.5	37.1	73.2	95.5	117.8

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
74826-09 F	6.7	9.1	13.4	25.6	38.3	71.7	87.2	98.1	
74826-10 F	6.9	9.2	12.9	24.6	38.3	68.7			
74826-11 F	7.2	10.0	13.9	25.7	41.9	75.9	96.3	114.7	
74826-12 F	6.9	9.5							
MALES MEAN	7.2	9.6	13.3	24.5	38.5	75.2			
FEMALES MEAN	7.0	9.6	13.4	24.9	38.9	72.4			
74829-01 M	6.5	9.0							
74829-02 M	7.3	9.4	14.6	29.5	49.1	80.1			
74829-03 M	6.8	9.0							
74829-04 M	7.1	9.3	14.6	28.9	48.5	75.1			
74829-05 M	6.6	8.5	13.8	26.4	46.1	73.1	102.9	126.1	
74829-06 M	6.6	8.1	13.1	25.9	43.3	69.5			
74829-07 F	6.4	8.6	13.3	25.5	42.4	61.2			
74829-08 F	7.0	8.8							
74829-09 F	6.2	7.8							
74829-10 F	6.5	8.3							
74829-11 F	6.5	8.9	14.3	27.7	45.1	65.5	95.2	117.6	
74829-12 F	6.4	8.0							
74829-13 F	6.3	8.2	13.2	26.3	44.8	69.5			
74829-14 F	6.6	8.7							
74829-15 F	7.0	9.3	14.3	27.9	45.4	67.6			
74829-16 F	6.3	8.7							

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
-----									
74829-17 F	3.9								
MALES MEAN	6.8	8.9	14.0	27.7	46.8	74.5			
FEMALES MEAN	6.3	8.5	13.8	26.9	44.4	66.0			
74840-01 M	9.0	13.3	17.1	30.5	51.6	99.1			
74840-02 M	9.4	14.1	18.3	31.5	55.2	97.5	122.2	146.4	
74840-03 F	9.0	13.4	17.6	31.0	51.1	92.0	112.6	136.7	
MALES MEAN	9.2	13.7	17.7	31.0	53.4	98.3			
FEMALES MEAN	9.0	13.4	17.6	31.0	51.1	92.0			
74841-02 M	7.0	9.5	13.5	25.2	40.5	78.8	99.5	114.8	
74841-03 M	6.8	9.3	13.1	25.1	40.2	75.7			
74841-04 M	7.6	10.2							
74841-05 M	6.8	9.4							
74841-06 M	6.4	8.9	12.2	23.2	36.7	69.5	84.5	100.1	
74841-07 M	6.9	9.8							
74841-08 F	6.6	9.6	13.6	26.3	43.5	73.2			
74841-09 F	6.2	8.9							
74841-10 F	6.2	8.9	12.4	24.7	38.4	69.6			
74841-11 M	6.3	9.0	12.8	24.2	39.2	73.6			
74841-12 F	5.8	8.6	12.2	24.2	38.2	67.6	88.9	108.2	
74841-13 F	5.9	8.4	11.8	22.9	37.0	66.4			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 1:		0 PPM							
-----									
74841-14 F	6.0	8.2							
MALES MEAN	6.8	9.4	12.9	24.4	39.2	74.4			
FEMALES MEAN	6.1	8.8	12.5	24.5	39.3	69.2			
74844-01 M	7.8	11.4	14.5	24.1	36.8	70.0			
74844-02 M	8.5	12.0	14.6	24.1	37.3	72.4	100.4	120.2	
74844-03 M	7.9	11.2	13.4	24.0	36.9	71.6	98.2	116.9	
74844-04 M	7.8	11.2	13.7	23.6	36.3	71.7	100.0	125.5	
74844-05 F	7.2	10.1	12.8	22.1	33.6	61.8	87.9	104.6	
74844-06 F	6.5	9.0	11.0	19.2	28.4	56.0			
74844-07 F	7.2	10.4	13.1	21.0	32.8	60.4	85.1	100.7	
MALES MEAN	8.0	11.5	14.1	24.0	36.8	71.4			
FEMALES MEAN	7.0	9.8	12.3	20.8	31.6	59.4			
74845-01 M	6.7	9.3	12.7	25.6	38.2	74.6	96.4	115.3	
74845-02 M	7.1	9.7	12.9	25.7	40.5	78.8			
74845-03 M	6.9	9.3	11.9	24.3	37.1	73.6	96.6	116.6	
74845-04 F	6.0	7.9	10.0	20.8	31.9	62.1	80.4	97.8	
74845-05 F	6.3	9.0	12.0	25.1	38.4	73.1			
74845-06 F	6.0	8.3							
74845-07 F	6.4	8.8	11.6	23.8	37.0	70.6	89.5	105.6	
74845-08 F	6.5	9.0							
74845-09 F	6.6	9.2	13.0	25.4	36.8	71.5	90.7	108.0	
74845-10 F	6.9	9.3							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 1: 0 PPM									
-----									
74845-11 F	7.1	9.2							
74845-12 F	6.8	9.7	13.1	25.9	40.2	75.7	98.2	112.8	
MALES MEAN	6.9	9.4	12.5	25.2	38.6	75.7			
FEMALES MEAN	6.5	8.9	11.9	24.2	36.9	70.6			
-----									
74854-02 M	6.0	7.2	8.9	19.7	31.6	63.2	87.0	106.9	
74854-03 M	6.3	8.2	10.1	20.8	34.2	69.6			
74854-04 M	6.3	8.7							
74854-05 M	6.4	8.1	10.3	20.9	34.0	69.7	88.3	103.9	
74854-06 M	7.2	10.1	11.5	23.2	37.8	71.3	100.2	125.6	
74854-07 M	6.8	8.8							
74854-08 F	5.4	7.3	9.1	20.0	33.5	62.0	80.7	98.2	
74854-09 F	5.8	7.5							
74854-10 F	6.0	8.2	10.2	19.2	31.6	60.2	79.1	95.2	
74854-11 F	6.1	8.4	10.1	21.1	35.9	71.8	94.0	114.4	
74854-12 F	6.6	9.0							
74854-13 F	5.9	8.3	10.5	21.9	35.7	67.5			
74854-14 F	5.8	7.7							
MALES MEAN	6.5	8.5	10.2	21.2	34.4	68.5			
FEMALES MEAN	5.9	8.1	10.0	20.6	34.2	65.4			
-----									
74864-01 M	5.1	6.3	7.8	10.5	16.4	24.8			
74864-02 M	6.1	7.8							
74864-03 M	5.2	7.1							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74864-04	M	6.1	8.1						
74864-05	M	5.7	7.6						
74864-06	M	5.7	7.8	10.5	15.6	25.0	47.5	64.9	81.8
74864-07	M	4.7	5.9						
74864-08	M	5.9	7.4						
74864-09	M	4.8	5.9	7.7	11.1	18.5	32.0		
74864-10	M	5.6	7.3	9.6	14.0	21.8	35.4		
74864-11	F	5.2	6.8						
74864-12	F	5.1	6.8	9.1	13.6	23.6	39.5		
74864-13	F	5.6	7.3	9.6	14.6	25.0	41.0		
74864-14	F	5.3	6.8						
74864-15	F	5.7	7.0	8.7	11.2	15.3	24.8	37.8	50.2
74864-16	F	4.0							
74864-17	F	4.8	5.5	7.2	10.8	18.4	30.6		
MALES MEAN		5.5	7.1	8.9	12.8	20.4	34.9		
FEMALES MEAN		5.1	6.7	8.7	12.6	20.6	34.0		
74867-01	M	6.5	9.7	13.8	25.1	43.1	76.2	115.6	139.8
74867-02	M	7.1	10.0	14.0	24.7	40.4	74.1		
74867-03	M	7.1	10.5	14.6	25.9	41.9	77.2	113.1	137.3
74867-04	M	6.4	9.8						
74867-05	M	6.0	8.9	12.3	23.3	38.9	68.9		
74867-06	F	7.7	10.5	14.9	27.1	42.5	74.3		
74867-07	F	6.6	9.7	13.9	26.0	43.1	77.6	109.5	131.6
74867-08	F	6.7	9.6						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 1:		0 PPM							
74867-09	F	6.7	10.1	14.2	25.6	41.9	74.2		
74867-10	F	6.6	9.6						
74867-11	F	6.3	9.4						
74867-12	F	7.0	10.0						
74867-13	F	6.5	9.7						
74867-14	F	6.7	9.7	13.8	23.6	38.5	64.8		
MALES MEAN		6.6	9.8	13.7	24.8	41.1	74.1		
FEMALES MEAN		6.8	9.8	14.2	25.6	41.5	72.7		
MALES MEAN		6.9	9.4	12.9	24.0	38.5	72.0	96.8	117.7
SD		0.79	1.41	2.10	3.90	6.58	11.57	12.84	16.66
N		22	22	22	22	22	22	42	39
FEMALES MEAN		6.5	9.0	12.5	23.3	36.9	66.7	88.5	107.2
SD		0.77	1.34	2.05	3.71	6.17	9.94	12.27	14.07
N		22	22	22	22	22	22	41	38

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                =====(LITTER AS EXPERIMENTAL UNIT)=====
                POSTNATAL DAY
PUP NUMBER SEX      1      4      7      14      21      28      32      35
-----
DAMS FROM GROUP 2:      500 PPM
-----
74742-01 M          6.0    7.8    9.0    15.8   30.5   48.1
74742-02 F          5.4    7.4
74742-03 M          6.1    7.7    9.2    16.9   30.0   56.4   76.8   93.3
74742-04 F          5.7    7.5    8.6    17.0   28.9   51.8
74742-05 M          5.8    7.1
74742-06 M          6.2    8.0
74742-07 M          6.6    7.8    9.4    14.7   27.6   46.9
74742-08 M          5.7
74742-09 M          6.2    8.0    9.4    17.6   23.2   52.7
74742-10 F          5.9    8.0    9.0    17.0   29.5   55.0
74742-11 F          5.0    6.6
74742-12 F          4.9    6.5
74742-13 F          5.2    6.5
74742-14 F          5.2    7.0
74742-15 F          6.1    8.1    9.7    17.4   29.6   53.3
74742-16 F          6.1    7.7
74742-17 F          5.6    7.6
74742-18 F          5.1    6.7    8.3    16.0   25.5   43.6   56.4   69.9

  MALES MEAN        6.1    7.7    9.3    16.3   27.8   51.0
  FEMALES MEAN      5.5    7.2    8.9    16.9   28.4   50.9

74746-01 M          5.8    7.0    7.8    14.0   22.5   45.2
74746-02 M          5.2    6.0    6.8    12.2   27.0   36.2
74746-03 M          6.1    7.2    7.9    14.2   26.1   43.1
74746-04 M          5.7    6.8
  
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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74746-05	M	5.7	6.8						
74746-06	M	5.4	6.7	7.4	12.6	23.7	41.4	59.0	74.5
74746-07	M	5.2							
74746-08	F	5.2	6.2						
74746-09	F	5.0	6.8						
74746-10	F	6.0	7.4	8.5	15.7	28.1	49.0	71.6	88.6
74746-11	F	4.8	6.3	7.2	13.7	26.3	46.8		
74746-12	F	5.1	5.9						
74746-13	F	5.0	6.2	6.9	11.7	22.3	37.3		
74746-14	F	5.1							
MALES MEAN		5.6	6.8	7.5	13.3	24.8	41.5		
FEMALES MEAN		5.2	6.5	7.5	13.7	25.6	44.4		
74753-02	M	5.9	6.9	8.4	18.7	30.2	55.1	77.7	99.1
74753-03	M	7.0	8.3	10.1	20.9	30.9	57.4		
74753-04	M	6.7	8.7	11.4	23.7	35.9	66.6	91.4	110.6
74753-05	F	7.0	10.1						
74753-06	F	5.9	7.4						
74753-07	F	6.9	10.0						
74753-08	F	6.5	7.6	8.8	19.3	29.7	50.6		
74753-09	F	6.3	8.7	11.4	24.2	35.3	58.6		
74753-11	F	5.3	6.6						
74753-12	F	6.4	7.8	10.7	23.1	32.2	57.0	77.9	94.2
74753-13	F	6.2	8.3	10.5	21.8	33.2	58.9		
74753-14	F	6.1	7.8	9.9	21.8	31.3	56.5		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 2:		500 PPM							
74753-15 F	6.6	8.7							
MALES MEAN	6.5	8.0	10.0	21.1	32.3	59.7			
FEMALES MEAN	6.3	8.3	10.3	22.0	32.3	56.3			
74761-01 M	5.2								
74761-02 M	5.7	6.0							
74761-03 M	5.4	6.0							
74761-04 M	5.4	6.0	7.4	12.0	22.6	37.4	54.0	66.5	
74761-05 M	5.0	5.4	6.1	9.1	16.9	26.7			
74761-07 M	5.6	6.7	8.0	11.9	21.4	32.6	47.9	59.7	
74761-08 M	4.9	5.2							
74761-09 M	5.4	5.3	6.1	10.2	18.7	29.6	42.1	52.1	
74761-10 M	5.3								
74761-11 F	5.1	5.3							
74761-12 F	5.2	6.2	7.4	13.8	25.4	39.0	54.6	68.3	
74761-13 F	4.7	4.8	5.5	7.6	15.0	23.2			
74761-14 F	5.1	6.1							
74761-16 F	4.6	4.9	5.8	9.0	16.6	25.3	37.0	47.7	
MALES MEAN	5.3	5.8	6.9	10.8	19.9	31.6			
FEMALES MEAN	4.9	5.5	6.2	10.1	19.0	29.2			
74762-01 M	6.4	8.0	8.3	13.4	23.0	40.5			
74762-02 M	6.1	7.9	8.5	13.7	23.4	38.6			
74762-03 M	5.8	7.1	7.7	12.1	21.3	36.6			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 2: 500 PPM									
-----									
74762-04 M	6.5	8.1	8.4	13.4	21.0	34.6	46.0	61.5	
74762-05 M	6.3	7.7							
74762-06 M	5.8	7.1							
74762-07 M	5.7	7.0							
74762-08 F	5.5	6.8	7.2	12.0	20.7	35.4			
74762-09 F	6.0	7.1	7.8	12.7	21.5	36.9			
74762-10 F	6.0	7.7	8.3	13.1	21.5	37.6			
74762-11 F	5.4	6.8	7.2	11.5	20.0	33.5	45.0	58.7	
74762-13 F	5.7	7.3							
MALES MEAN	6.1	7.6	8.2	13.2	22.2	37.6			
FEMALES MEAN	5.7	7.1	7.6	12.3	20.9	35.9			
74765-01 M	7.5	10.0	10.5						
74765-02 F	7.3	9.9	10.6						
74765-03 F	6.5	8.2	8.4						
MALES MEAN	7.5	10.0	10.5						
FEMALES MEAN	6.9	9.1	9.5						
74782-01 M	6.0	6.7	6.9	7.8					
74782-02 M	6.2	7.2							
74782-03 M	6.2	7.8	8.0	10.5	21.3	33.1			
74782-04 M	6.2	7.0	7.2	10.0	18.7	26.5	26.7	43.0	
74782-05 M	5.9	6.3							
74782-06 M	5.9	6.9							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74782-07	M	6.4	7.5						
74782-08	M	6.3	7.8	8.0	9.6	17.1	26.2		
74782-09	F	5.9	6.7	7.2	8.6	14.8	24.4	35.1	46.2
74782-10	F	5.6	6.4						
74782-11	F	5.5	6.6	6.9	8.4	15.5	26.3		
74782-12	F	6.0	6.9						
74782-13	F	5.9	7.0	7.7	9.8	17.8	25.7		
74782-14	F	5.9	6.8	7.0					
MALES MEAN		6.1	7.2	7.5	9.5	19.0	28.6		
FEMALES MEAN		5.8	6.7	7.2	8.9	16.0	25.5		
74785-01	M	5.6	8.3	9.3	20.5	31.9	60.5		
74785-02	M	5.9	8.0						
74785-03	M	6.0	8.6						
74785-04	M	5.8	8.5	10.4	20.2	28.6	64.9	86.3	108.3
74785-05	M	5.5	8.4	9.7	21.9	34.0	62.8		
74785-06	M	5.8	8.6						
74785-07	M	5.8	7.9	9.1	18.7	30.2	57.2		
74785-08	F	5.5	8.0	9.4	19.6	29.1	56.1	76.3	91.8
74785-09	F	5.6	8.5						
74785-10	F	5.2	7.2	8.3	17.7	26.6	46.3		
74785-11	F	5.9	8.5						
74785-12	F	5.3	7.5						
74785-13	F	5.3	7.3	8.8	18.8	29.4	54.4		
74785-14	F	5.3	7.1	8.3	18.5	29.1	57.8		

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74785-15	F	5.5	8.1						
MALES MEAN		5.8	8.3	9.6	20.3	31.2	61.4		
FEMALES MEAN		5.5	7.8	8.7	18.7	28.6	53.7		
74790-01	M	6.2	8.9	11.2	23.9	36.9	70.7	98.7	119.2
74790-02	M	5.9	8.6	11.4	23.6	38.0	72.9	101.3	125.1
74790-03	M	6.6	9.5						
74790-04	M	6.5	9.5	12.8	25.5	41.0	74.4		
74790-05	M	5.9	7.5						
74790-06	M	6.5	8.7						
74790-08	M	6.1	8.1						
74790-09	M	6.6	9.4	12.8	25.6	39.4	70.3	90.5	111.5
74790-10	M	5.8	7.4						
74790-11	F	5.6	8.0	10.4	22.8	36.2	66.7	92.6	108.0
74790-13	F	6.0	8.4						
74790-14	F	5.6	8.0	10.2	23.2	36.1	61.5	85.9	106.1
74790-15	F	6.6	9.0	11.6	24.3	39.8	67.7	87.9	106.8
74790-16	F	5.9	8.6	11.5	23.9	37.7	66.8		
74790-17	F	6.2							
MALES MEAN		6.2	8.6	12.1	24.7	38.8	72.1		
FEMALES MEAN		6.0	8.4	10.9	23.6	37.5	65.7		
74796-01	M	4.9	7.2						
74796-02	M	5.6	8.2	10.4	21.0	33.5	62.8		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74796-03	M	5.2	7.8						
74796-04	M	5.0	7.5						
74796-05	M	5.9	9.2	12.5	25.1	40.8	72.7		
74796-06	M	5.6	8.2						
74796-07	M	4.7	7.1	9.5	18.9	32.1	58.7	80.2	100.2
74796-08	M	4.4	6.8						
74796-09	M	5.8	8.5	11.4	23.6	36.7	69.5		
74796-10	M	5.8	8.2						
74796-11	F	5.7	8.7						
74796-12	F	4.5	6.4	8.3	16.2	26.8	48.9		
74796-13	F	5.3	8.0	10.6	21.7	34.0	65.5		
74796-14	F	5.9	8.5	11.6	23.9	39.0	65.7		
74796-15	F	6.2	9.3	12.3	24.4	41.7	68.7	95.0	116.6
MALES MEAN		5.3	7.9	11.0	22.2	35.8	65.9		
FEMALES MEAN		5.5	8.2	10.7	21.6	35.4	62.2		
74797-01	M	6.9	9.0	12.2	23.5	36.5	66.8	89.9	109.7
74797-02	M	6.4	8.6						
74797-03	M	6.6	8.9						
74797-04	M	6.3	8.5						
74797-05	M	6.6	8.7						
74797-06	M	6.1	8.2	10.9	19.4	31.0	60.2		
74797-07	M	6.7	8.5						
74797-08	M	7.0	9.2						
74797-09	M	7.0	9.2	12.2	23.5	34.9	68.3	91.4	116.7

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 2:		500 PPM							
74797-10 F	6.2	8.8	11.6	23.2	35.2	63.6	79.9	91.5	
74797-11 F	6.3	8.4	11.5	21.3	33.7	61.6	78.9	92.0	
74797-12 F	6.2	8.1	10.9	22.1	34.5	61.2	80.8	100.5	
74797-13 F	6.3	9.0	11.8	23.2	35.2	63.1			
MALES MEAN	6.6	8.8	11.8	22.1	34.1	65.1			
FEMALES MEAN	6.3	8.6	11.5	22.5	34.7	62.4			
74798-01 M	6.1	6.2	7.3	12.5	24.0	42.0			
74798-02 M	6.1	6.9							
74798-03 M	6.7	7.2	9.1	16.1	29.4	50.2			
74798-04 M	7.5	7.9	9.7	17.7	32.9	60.3	82.0	99.8	
74798-05 M	5.8	5.5							
74798-06 F	6.7	7.2							
74798-07 F	6.8	7.5	8.2	14.9	29.7	53.4			
74798-08 F	6.6	7.5							
74798-09 F	6.5	7.0	7.6	13.8	27.8	46.1			
74798-10 F	6.5	5.5							
74798-11 F	6.2	6.7							
74798-12 F	7.0	7.4	8.8	15.3	28.0	49.6	68.8	86.1	
74798-13 F	6.5	6.6	8.1	12.6	25.2	43.8	59.2	78.1	
74798-14 F	6.4	6.9							
MALES MEAN	6.4	6.7	8.7	15.4	28.8	50.8			
FEMALES MEAN	6.6	6.9	8.2	14.2	27.7	48.2			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74802-01	M	7.1	10.4	14.1	27.5	42.3	79.4		
74802-02	M	6.9	9.5						
74802-03	M	6.8	9.5	13.1	26.3	38.7	69.2		
74802-04	M	7.6	10.1						
74802-05	M	7.5	10.0	14.0	27.6	41.6	72.5	106.8	131.7
74802-06	M	7.3	10.2						
74802-07	M	7.0	10.2						
74802-08	M	7.3	10.3	14.0	26.2	39.6	71.5	99.8	123.5
74802-09	F	6.3	8.5						
74802-10	F	6.2	8.5	10.0	21.4	32.2	55.4	71.3	93.2
74802-11	F	6.4	8.4						
74802-12	F	6.7	8.8	12.5	25.6	40.5	72.9		
74802-13	F	5.8	7.8	10.1	21.2	30.6	57.3		
74802-14	F	6.8	9.8	12.5	25.1	38.5	65.2		
74802-15	F	6.0	8.1						
74802-16	F	6.6	9.2						
MALES MEAN		7.2	10.0	13.8	26.9	40.6	73.2		
FEMALES MEAN		6.4	8.6	11.3	23.3	35.5	62.7		
74809-01	M	7.7	10.5						
74809-02	M	7.8	10.7	13.9	23.5	39.5	78.3	103.5	123.4
74809-03	M	7.4	10.4	13.5	23.8	38.6	75.4	98.3	113.4
74809-04	F	6.8	9.8	13.0	22.9	38.2	73.9		
74809-05	F	6.8	9.3						
74809-06	F	7.0	9.5	12.4	22.3	36.1	68.0	88.7	104.1

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 2:		500 PPM						
-----								
74809-07 F	6.3	8.6						
74809-08 F	7.3	10.1	13.3	22.9	38.5	71.3	91.9	110.1
74809-09 M	7.8	10.3	13.7	23.5	41.1	80.7	105.2	131.8
74809-10 M	6.8	9.6	12.6	22.0	37.1	70.9		
74809-11 F	7.1	9.8						
74809-12 F	7.0	9.3						
74809-13 F	6.6	9.0	11.8	21.8	35.1	66.5	83.1	95.8
MALES MEAN	7.5	10.3	13.4	23.2	39.1	76.3		
FEMALES MEAN	6.9	9.4	12.6	22.5	37.0	69.9		
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74812-01 M	6.0	6.5	6.9					
74812-02 M	6.2	7.0	7.6					
74812-03 M	6.2	7.0	7.6					
74812-04 M	6.5	6.9	7.6					
74812-05 M	6.1							
74812-06 F	5.7	6.2						
74812-07 F	5.9	6.3	6.2					
74812-08 F	5.8	5.9						
74812-09 F	5.5	5.5						
74812-10 F	6.0							
74812-11 F	5.8	5.8						
74812-12 F	5.8	6.0	6.3					
74812-13 F	6.1	6.2						
74812-14 F	5.4	5.6	6.0					

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER SEX	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 2: 500 PPM									
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74812-15 F	5.6	5.5							
MALES MEAN	6.2	6.9	7.4						
FEMALES MEAN	5.8	5.9	6.2						
74816-01 M	6.3	9.4	12.7	24.7	37.4	72.7			
74816-02 M	7.1	10.2							
74816-03 M	6.4	8.9	11.9	22.1	33.2	67.8			
74816-04 M	6.4	8.8							
74816-05 M	6.3	9.2	12.3	24.2	36.9	72.5	96.3	120.7	
74816-07 M	7.3	10.8	14.5	27.2	41.9	80.6			
74816-08 F	7.2	11.0							
74816-09 F	5.7	9.2							
74816-10 F	6.1	9.4	12.7	24.8	35.8	68.5			
74816-11 F	6.0	8.9	11.5	21.7	33.7	61.5			
74816-12 F	6.5	10.2	13.4	25.7	37.6	74.9	98.8	119.0	
74816-13 F	5.8	8.4	11.2	22.2	32.2	61.6			
74816-14 F	6.0	9.2							
74816-15 F	6.7	9.9							
74816-16 F	5.8	8.5							
MALES MEAN	6.6	9.6	12.9	24.6	37.4	73.4			
FEMALES MEAN	6.2	9.4	12.2	23.6	34.8	66.6			
74819-01 M	6.6	8.3	11.0	22.9	34.4	65.1	84.4	99.6	
74819-02 M	7.5	9.7	13.2	24.7	35.7	68.0			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74819-03	M	7.6	9.3	13.2	25.0	36.5	72.0	99.5	120.0
74819-04	M	6.7	8.7	11.9	23.7	34.0	66.1	88.1	103.0
74819-05	M	7.1	8.8						
74819-06	F	6.8	8.2	11.2	21.0	30.5	61.2	78.4	93.0
74819-07	F	5.7	7.0						
74819-08	F	6.3	7.8						
74819-09	F	6.3	7.5						
74819-10	F	6.0	7.3	10.2	19.6	29.5	57.8	76.9	95.9
74819-11	F	6.2	8.1	11.4	21.4	30.8	63.2	82.3	97.8
74819-12	F	5.8	7.2	10.3	21.5	31.4	61.1		
74819-13	F	5.9	7.5						
MALES MEAN		7.1	9.0	12.3	24.1	35.2	67.8		
FEMALES MEAN		6.1	7.6	10.8	20.9	30.6	60.8		
74823-01	M	6.5	9.0	11.6	24.0	41.4	73.8	97.8	122.0
74823-02	M	6.8	9.1						
74823-03	M	6.8	9.0	11.4	23.7	38.5	73.5	94.2	110.0
74823-04	M	7.4	9.0						
74823-05	M	7.4	9.4	11.8	23.5	39.2	73.7	95.1	115.2
74823-06	M	6.3	8.2	10.1	22.0	36.6	66.3		
74823-07	F	6.3	8.3	10.5	22.0	38.3	67.9		
74823-08	F	6.5	8.9						
74823-09	F	7.1	9.4	11.8	22.3	41.0	72.7	85.8	98.1
74823-10	F	7.0	9.1						
74823-11	F	6.7	8.7	11.3	24.2	41.1	69.6	79.8	91.3

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 2:		500 PPM							
74823-12 F	6.8	9.4	11.7	24.1	37.6	67.0	89.0	106.9	
74823-13 F	6.5	8.9							
74823-14 F	7.4	9.9							
74823-15 F	6.8	8.8							
74823-16 F	7.0	9.3							
MALES MEAN	6.9	9.0	11.2	23.3	38.9	71.8			
FEMALES MEAN	6.8	9.1	11.3	23.2	39.5	69.3			
74824-01 M	6.0	7.8	8.6	14.2	22.2	39.9			
74824-02 M	7.2	9.7							
74824-03 M	6.6	8.1	9.2						
74824-04 M	6.6	8.6							
74824-05 M	6.2	8.3	8.8	12.7	19.3	36.1	51.7	68.4	
74824-06 M	7.0	9.4							
74824-07 M	6.6	8.5	9.5	14.3	24.5	45.1	65.2	79.6	
74824-08 M	6.4	7.4							
74824-09 F	6.1	8.7	10.2	17.6	28.0	49.8	69.3	81.5	
74824-10 F	6.0	7.9	8.6	14.1	23.0	41.8			
74824-11 F	6.0	7.8	9.3	13.7	24.5	45.8	65.7	84.5	
74824-12 F	6.1	7.7							
74824-13 F	6.6	8.4							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 2:		500 PPM							
74824-14 F	6.2	8.5	10.5	15.9	23.5	43.0	61.0	72.4	
MALES MEAN	6.6	8.5	9.0	13.7	22.0	40.4			
FEMALES MEAN	6.2	8.2	9.7	15.3	24.8	45.1			
74835-01 M	7.2	9.2	12.4	22.1	37.0	69.9			
74835-02 M	6.9	9.2	11.7	20.8	37.2	61.6			
74835-03 M	6.7	8.8	11.8	22.0	35.8	69.4	94.8	117.7	
74835-04 M	6.5	8.6							
74835-05 M	6.7	8.5							
74835-06 M	7.1	9.3	12.7	24.0	39.5	72.2			
74835-07 F	6.5	8.6	11.8	22.6	36.1	67.3	89.0	108.8	
74835-08 F	6.6	8.3	11.3						
74835-09 F	6.3	8.0							
74835-10 F	6.6	8.8							
74835-11 F	6.9	9.3	9.9	16.5	24.1	48.7	64.6	79.3	
74835-12 F	6.9	9.2							
74835-13 F	6.8	8.9							
74835-14 F	6.7	8.5	11.8	23.4	39.7	70.3			
MALES MEAN	6.9	8.9	12.2	22.2	37.4	68.3			
FEMALES MEAN	6.7	8.7	11.2	20.8	33.3	62.1			
74838-01 M	5.6	8.2							
74838-02 M	5.7	8.4							
74838-03 M	6.7	9.3							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74838-05	M	6.6	9.2	13.1	24.6	35.4	71.6		
74838-06	M	5.7	8.1	11.8	22.5	32.7	64.9	89.6	111.5
74838-07	M	5.7	7.6						
74838-08	M	5.7	8.4	12.3	22.2	31.9	63.1		
74838-09	M	5.6	8.1	11.5	22.7	34.6	67.9		
74838-10	F	5.2	6.9	10.0	20.4	29.9	60.4		
74838-11	F	5.6	8.3	12.2	22.9	34.6	66.2	87.2	104.1
74838-12	F	5.8	8.3	12.6	23.9	35.1	67.9		
74838-13	F	5.9	8.3						
74838-14	F	5.8	8.5	12.7	24.5	37.1	72.9		
74838-15	F	6.1	8.5						
74838-16	F	5.7	8.0						
74838-17	F	5.7	8.4						
MALES MEAN		5.9	8.4	12.2	23.0	33.7	66.9		
FEMALES MEAN		5.7	8.2	11.9	22.9	34.2	66.9		
74839-02	M	6.4	8.8	11.4	21.9	34.4	68.2	93.3	115.6
74839-03	M	6.2	8.3						
74839-04	M	6.1	8.7						
74839-05	M	6.5	9.1	11.7	22.7	34.8	66.2		
74839-06	M	6.4	8.9						
74839-07	M	6.4	9.2	11.5	20.7	33.1	62.2		
74839-08	F	5.1	7.0						
74839-09	M	5.3	7.5	9.0	17.8	27.7	47.1		
74839-10	F	5.6	7.3	9.5	18.6	29.1	55.4		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 2:		500 PPM						
-----								
74839-11 M	5.8	8.1						
74839-12 F	4.8	6.4	8.3	16.9	27.0	51.7		
74839-13 F	5.8	8.4						
74839-15 F	6.0	8.2						
74839-16 F	4.7	6.6						
74839-17 F	5.4	7.1	8.7	17.0	27.5	55.1		
74839-18 F	5.6	7.3	9.8	19.3	29.9	58.2	81.1	99.8
MALES MEAN	6.1	8.6	10.9	20.8	32.5	60.9		
FEMALES MEAN	5.4	7.3	9.1	18.0	28.4	55.1		
-----								
74846-02 M	7.2	11.4	15.3	29.5	45.7	87.2		
74846-03 M	7.8	10.9	15.9	30.3	46.9	86.9	116.6	143.0
74846-04 M	6.9	9.7	14.1	28.2	42.5	79.1		
74846-05 M	7.0	10.7	15.1	29.0	45.1	84.3		
74846-06 M	6.7	9.4						
74846-07 F	7.4	11.2	15.8	29.2	44.6	77.3	101.6	127.0
74846-08 F	6.8	9.8	14.3	27.3	41.7	73.6		
74846-09 F	6.8	9.7	13.5	26.8	40.4	73.2		
74846-10 F	7.2	10.6						
74846-11 F	6.8	10.1						
74846-12 F	5.2	7.7	11.3	23.4	36.7	69.4		
74846-13 F	5.1	7.0						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 2:		500 PPM							
74846-14 F	6.0	9.0							
MALES MEAN	7.1	10.4	15.1	29.3	45.1	84.4			
FEMALES MEAN	6.4	9.4	13.7	26.7	40.9	73.4			
74856-01 M	6.3	9.1	11.9	23.9	38.5	68.2			
74856-02 M	6.3	8.5	10.9	21.1	33.8	65.7			
74856-03 M	6.7	9.4							
74856-04 M	6.6	8.7	11.0	20.7	32.7	66.4			
74856-05 M	6.2	8.3							
74856-06 M	6.0	7.8	9.5	17.6	25.9	52.9	69.4	88.5	
74856-07 F	6.4	8.5							
74856-08 F	6.4	8.6	11.5	22.6	38.3	63.2			
74856-09 F	6.3	9.4							
74856-10 F	5.7	7.6							
74856-11 F	6.5								
74856-12 F	6.1	9.0	11.4	21.8	35.5	63.4			
74856-13 F	6.8	9.6	12.0	23.8	40.2	67.5			
74856-14 F	6.5	9.2							
74856-15 F	6.3	8.1	9.3	16.8	21.9	45.7	51.0	65.4	
74856-16 F	6.2	8.6							
74856-17 F	5.8	8.2							
MALES MEAN	6.4	8.6	10.8	20.8	32.7	63.3			
FEMALES MEAN	6.3	8.7	11.1	21.3	34.0	60.0			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74859-01	M	7.7	10.9	15.1	27.2	43.1	74.0		
74859-02	M	7.4	10.1	13.8	24.8	37.2	62.5	94.2	116.9
74859-03	M	7.7	9.6						
74859-04	M	7.1	9.2	11.4	20.6	29.7	54.7	84.5	112.0
74859-05	M	7.7	10.6						
74859-06	M	4.9	6.4	7.6	11.7	19.8	34.5	51.8	66.4
74859-07	F	6.8	9.0	11.9	22.4	34.7	59.5		
74859-08	F	7.2	9.8						
74859-09	F	6.5	9.3	12.0	21.3	34.2	58.4	84.2	102.8
74859-10	F	7.4	10.1	13.9	25.0	40.5	66.4	96.6	118.0
74859-11	F	7.2	8.8						
74859-12	F	7.1	9.2	12.2	23.2	36.4	63.5	89.6	108.1
74859-13	F	7.6	10.4						
MALES MEAN		7.1	9.5	12.0	21.1	32.5	56.4		
FEMALES MEAN		7.1	9.5	12.5	23.0	36.5	62.0		
74861-01	M	8.3	10.7	13.3	21.8	35.4	61.6		
74861-02	M	7.5	10.0	12.1	19.6	33.1	50.1	67.2	80.1
74861-03	M	6.9	8.8	10.4	14.4	25.0	42.0	57.7	75.2
74861-04	F	5.8	7.7	9.2	13.5	26.0	45.3		
74861-05	F	6.5	8.7	10.6	16.5	30.3	51.4	67.8	83.4
MALES MEAN		7.6	9.8	11.9	18.6	31.2	51.2		
FEMALES MEAN		6.2	8.2	9.9	15.0	28.2	48.4		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 2:		500 PPM							
74863-01	M	7.6	11.0	15.1	25.7	42.7	78.7	101.9	124.3
74863-02	M	7.7	11.5	16.2	26.7	44.5	80.3	107.3	133.7
74863-03	M	6.6	10.0	13.5	24.8	40.8	74.2		
74863-04	M	6.9	10.3						
74863-05	M	8.5	11.8	16.2	27.0	46.0	80.8	109.6	135.0
74863-06	F	7.1	10.6	14.3	25.1	40.3	74.3	102.2	125.5
74863-07	F	7.1	10.5						
74863-08	F	7.0	10.4						
74863-09	F	5.7	8.4	11.6	22.0	34.2	64.7	88.7	107.8
74863-10	F	7.1	10.6	14.5	25.4	44.3	79.0	102.1	122.6
74863-11	F	7.0	10.0						
74863-12	F	6.8	10.3						
74863-13	F	6.3	9.8	13.6	24.3	41.1	73.8		
MALES MEAN		7.5	10.9	15.3	26.1	43.5	78.5		
FEMALES MEAN		6.8	10.1	13.5	24.2	40.0	73.0		
74869-01	M	7.7	11.2	14.4	25.2	40.5	76.4		
74869-02	M	8.3	11.6	14.8	25.9	40.3	78.2	106.8	129.0
74869-03	M	6.6	9.1	11.5	20.9	33.6	66.3		
74869-04	F	6.3	9.2	11.9	22.3	34.4	62.3	84.5	102.7
74869-05	F	6.7	8.8	11.2	21.8	34.0	62.0		
74869-06	F	6.9	10.1						
74869-07	F	7.3	10.2	12.9	23.2	35.4	64.4		
74869-08	F	6.6	8.8						
74869-09	F	7.2	10.5	13.3	23.8	35.6	62.1		

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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                =====(LITTER AS EXPERIMENTAL UNIT)=====
                POSTNATAL DAY
PUP NUMBER SEX      1      4      7      14      21      28      32      35
-----
DAMS FROM GROUP 2:      500 PPM
-----
74869-10 F          6.9    10.2   12.7   23.1   35.8   69.6
MALES MEAN          7.5    10.6   13.6   24.0   38.1   73.6
FEMALES MEAN        6.8     9.7   12.4   22.8   35.0   64.1

MALES MEAN          6.6     8.7   11.0   20.4   32.9   60.5   83.8  103.6
SD                   0.68   1.30   2.32   5.11   7.00  14.90  21.22  24.76
N                     28     28    28     26     26     26     45     45

FEMALES MEAN        6.1     8.2   10.2   19.5   31.5   56.7   77.7   94.4
SD                   0.58   1.17   2.09   4.77   6.45  12.70  16.47  18.92
N                     28     28    28     26     26     26     45     45
  
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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74738-02	M	5.6	7.7	9.8	19.0	30.6	61.3	82.7	99.3
74738-03	M	5.1	7.5	9.5	18.2	29.3	55.9	74.4	89.3
74738-04	M	5.9	8.6	10.4	20.8	31.2	57.7	76.8	93.6
74738-05	M	5.5	8.2						
74738-06	M	5.4	8.0						
74738-07	F	5.3	7.8	9.9	20.0	32.5	65.0	89.7	106.1
74738-08	M	5.1	7.5	9.5	18.1	29.8	54.6		
74738-09	F	5.3	7.7						
74738-10	M	5.5	7.9						
74738-11	F	5.4	8.1	10.0	20.1	30.6	58.7	78.3	92.9
74738-12	F	5.0	7.3	8.9	17.5	28.8	53.9	72.5	88.4
74738-13	F	5.4	7.5	8.6	17.7	28.7	52.0		
74738-14	M	5.7	8.0						
MALES MEAN		5.5	7.9	9.8	19.0	30.2	57.4		
FEMALES MEAN		5.3	7.7	9.4	18.8	30.2	57.4		
74739-01	M	6.8	9.2	12.6	25.5	38.5	75.2		
74739-02	M	7.1	9.0						
74739-03	M	7.8	10.0	13.5	26.5	39.4	74.2		
74739-04	M	7.6	10.0	13.7	26.2	40.2	74.1	99.2	120.2
74739-05	M	7.5	10.3						
74739-06	M	7.5	9.8	13.1	24.6	36.8	72.8		
74739-07	F	7.0	9.2						
74739-08	F	7.2	9.8	13.2	25.8	41.5	73.4	97.5	115.9
74739-09	F	6.6	8.9						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY						32	35	
	1	4	7	14	21	28			
DAMS FROM GROUP 3:		1000 PPM							
74739-10 F	7.5	9.9	13.1	26.2	43.8	75.8			
74739-11 M	7.3	9.5							
74739-12 F	6.1	8.6							
74739-13 F	6.5	8.1	11.0	22.5	34.7	66.7			
74739-14 F	5.8	7.4	10.1	20.4	31.7	56.6			
74739-15 M	6.9	9.8							
MALES MEAN	7.3	9.7	13.2	25.7	38.7	74.1			
FEMALES MEAN	6.7	8.8	11.9	23.7	37.9	68.1			
74743-02 M	7.8	12.2	15.0	25.7	42.2	79.7			
74743-03 M	7.6	11.9							
74743-04 M	7.3	11.5	14.9	25.5	38.1	70.9	96.8	117.4	
74743-05 F	6.8	11.0	13.7	23.8	37.4	66.5			
74743-06 F	7.6	12.0	14.9	24.8	38.9	71.6			
74743-07 F	7.6								
74743-08 F	7.6	11.7	15.4	26.0	41.8	73.0	93.8	114.8	
74743-09 F	6.8								
74743-10 F	7.2	11.3	13.9	23.7	33.6	65.5			
74743-11 M	7.8	11.5	14.9	24.5	36.3	71.1			
74743-12 M	6.8	11.3	14.5	24.5	36.8	70.9			
74743-13 M	6.7	10.4							
MALES MEAN	7.3	11.5	14.8	25.1	38.4	73.2			
FEMALES MEAN	7.3	11.5	14.5	24.6	37.9	69.2			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74744-01	M	6.3	7.9						
74744-02	M	6.8	8.2	11.1	22.0	35.4	69.9	91.6	112.0
74744-03	M	6.0	7.6						
74744-04	M	7.0	8.2						
74744-05	M	6.4	7.8						
74744-06	M	6.5	8.7	11.0	21.2	32.2	65.0	86.1	
74744-07	M	6.6	8.9	10.8	21.4	32.2	66.9		
74744-08	M	6.4	8.0						
74744-09	M	6.7	8.5						
74744-10	M	6.8	8.2						
74744-11	M	5.8	7.4	8.7	17.0	27.8	55.3	73.8	
74744-12	M	6.9	8.5						
74744-13	F	6.4	8.0	10.4	20.4	31.1	59.1	73.3	
74744-14	F	6.3	8.5	11.0	22.6	34.5	64.5	82.6	
74744-15	F	6.5	8.0	10.4	19.5	29.0	56.2		
74744-16	F	6.3	7.3	9.7	19.9	31.5	58.8	73.0	90.0
MALES MEAN		6.5	8.2	10.4	20.4	31.9	64.3		
FEMALES MEAN		6.4	8.0	10.4	20.6	31.5	59.7		
74748-01	M	5.4	7.4	8.7	15.2	27.4	49.6	66.7	80.1
74748-02	M	5.4	7.1	8.2	13.7	22.6	37.9	52.5	64.1
74748-04	M	6.2	8.8						
74748-05	M	6.3	8.9	10.0	15.4	26.5	48.0	63.2	78.4
74748-06	M	6.1	8.4						
74748-07	F	5.5	7.7	9.0	15.2	27.3	43.8		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 3:		1000 PPM						
-----								
74748-08 M	5.6	7.8	9.2	14.9	24.2	40.4		
74748-09 F	5.9	8.0	9.0	16.0	27.5	50.4	64.7	75.9
74748-10 F	5.2	7.5	8.8	14.4	25.9	46.2	63.7	76.8
74748-11 F	5.8	7.9	8.7	14.4	25.1	46.1	60.2	72.1
MALES MEAN	5.8	8.1	9.0	14.8	25.2	44.0		
FEMALES MEAN	5.6	7.8	8.9	15.0	26.5	46.6		
74752-01 M	7.0							
74752-02 M	7.7	9.4	12.4	18.8	31.2	60.4		
74752-03 M	7.1							
74752-04 M	6.8	9.4	12.2	22.6	35.1	62.9		
74752-05 M	7.3	9.2	12.5	23.3	35.2	63.6	90.3	113.8
74752-06 F	6.6	9.3						
74752-07 F	6.5	9.9	13.1	24.7	38.3	65.5		
74752-08 F	7.0	9.4						
74752-09 F	6.6	9.3						
74752-10 F	6.7	9.8	12.9	24.9	37.0	66.4	91.9	116.2
74752-11 F	6.6	8.9	12.6	24.3	36.2	61.5		
74752-12 F	6.6	9.3						
74752-13 F	6.2	8.8	11.6	22.4	35.5	63.8		
74752-14 F	7.2	9.5	12.7	23.3	36.3	62.7		
74752-15 F	6.9	9.2						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 3:		1000 PPM							
74752-16 F	6.5	9.0							
MALES MEAN	7.2	9.3	12.4	21.6	33.8	62.3			
FEMALES MEAN	6.7	9.3	12.6	23.9	36.7	64.0			
74766-01 M	5.2	7.5							
74766-02 M	5.9	8.4	11.3	21.6	32.5	68.9	95.2	118.3	
74766-03 M	6.0	8.0							
74766-04 M	6.4	8.9							
74766-05 M	5.3	7.4	10.2	19.6	30.4	59.9	81.9	99.0	
74766-06 M	5.0	7.3	9.9	17.8	27.8	59.1			
74766-07 M	5.1	6.9							
74766-08 M	5.4	7.5	10.3	19.0	29.6	62.1	82.3	99.2	
74766-09 F	5.0	7.1							
74766-10 F	6.0	8.2	11.3	21.3	32.9	66.7			
74766-11 F	4.0	5.0							
74766-12 F	5.7	7.6	10.3	18.8	28.7	56.3	74.9	88.3	
74766-13 F	5.0	6.6	9.0	17.3	27.2	56.0	76.4	88.7	
74766-14 F	5.5	7.8							
74766-15 F	5.3	7.8							
74766-16 F	5.6	7.9	11.2	20.0	29.1	60.4	79.7	90.3	
MALES MEAN	5.5	7.7	10.4	19.5	30.1	62.5			
FEMALES MEAN	5.3	7.3	10.5	19.4	29.5	59.9			
74780-01 M	6.7	10.5	13.9	24.9	38.3	73.9	97.9	111.7	

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74780-02	M	6.8	10.7	14.6	26.2	40.4	71.0		
74780-03	M	6.2	9.9	13.8	24.6	34.2	65.4	90.1	113.4
74780-04	F	6.6	10.6	14.4	25.6	39.2	73.9	101.2	117.6
74780-05	F	6.6	10.5	14.2	24.9	37.0	58.5	80.4	97.5
74780-06	F	6.1	9.2						
74780-07	F	6.4	10.3	14.0	24.8	37.6	63.9		
74780-08	F	6.0	9.1						
74780-09	F	6.1	10.1						
74780-10	F	6.0	9.5	13.1	23.9	36.4	65.6	91.0	107.3
74780-11	F	6.4	10.1						
74780-12	F	6.1	9.9	13.3	24.1	35.2	59.3	77.2	92.3
MALES MEAN		6.6	10.4	14.1	25.2	37.6	70.1		
FEMALES MEAN		6.3	9.9	13.8	24.7	37.1	64.2		
74791-01	M	7.1	8.7						
74791-02	M	6.4	7.9	9.6	16.5	25.3	49.1	65.0	82.8
74791-03	M	7.0	8.8						
74791-04	M	7.0	8.9	11.1	18.0	27.2	54.5	74.2	92.9
74791-05	M	7.1	8.5	10.2	18.2	28.3	53.4	74.5	93.4
74791-06	M	6.9	8.9	10.3	16.9	27.1	51.4		
74791-07	M	7.2	8.5						
74791-08	F	6.7	7.7	9.3	15.9	24.7	46.4	62.4	71.3
74791-09	F	6.2							
74791-10	F	6.4	8.2	9.8	16.3	25.9	49.0	64.9	77.5
74791-11	F	7.3	8.9						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 3:		1000 PPM							
74791-12 F	6.4	8.4	9.8	17.3	26.2	52.8			
74791-13 F	6.2	8.0	9.9	16.7	25.5	49.1	69.3	82.5	
MALES MEAN	7.0	8.6	10.3	17.4	27.0	52.1			
FEMALES MEAN	6.5	8.2	9.7	16.6	25.6	49.3			
74793-01 M	7.6	10.5	13.7	21.9	31.6	61.4			
74793-02 M	7.1	9.8							
74793-03 M	7.1	9.2							
74793-04 M	7.8	10.4	12.6	19.2	28.0	55.0			
74793-05 M	7.1	10.6	13.9	22.0	31.8	62.0	81.7	100.7	
74793-06 M	6.8	8.7	10.8	16.8	27.4	53.7			
74793-07 F	6.8	9.1							
74793-08 F	7.6	10.4							
74793-09 F	6.7	9.3							
74793-10 F	7.0	9.5	11.5	15.9	20.1	39.2			
74793-11 F	6.8	10.3							
74793-12 F	6.8	9.2	11.3	17.8	26.3	49.8			
74793-13 F	6.9	9.5							
74793-14 F	6.7	9.8	12.1	19.8	30.8	59.3	76.5	93.1	
74793-15 F	6.2	8.6							
74793-16 F	6.7	9.2	11.9	18.2	29.1	56.3			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 3:		1000 PPM							
74793-17 F	6.8	8.7							
MALES MEAN	7.3	9.9	12.8	20.0	29.7	58.0			
FEMALES MEAN	6.8	9.4	11.7	17.9	26.6	51.2			
74795-01 M	7.0	9.4							
74795-02 M	6.7	9.7							
74795-03 M	6.8	9.2	12.6	23.8	36.9	74.1	97.5	115.6	
74795-04 M	5.9	8.0	11.1	21.6	33.9	68.7	93.6	114.0	
74795-05 M	6.4	8.4	11.9	23.2	36.3	74.1			
74795-06 M	6.5	8.8	12.0	23.1	36.5	75.7	102.5	124.9	
74795-07 M	6.4	9.5							
74795-08 M	6.3	9.2							
74795-09 F	6.2	8.6	11.6	21.4	33.4	65.5	87.0	109.6	
74795-10 F	6.0	8.2	11.2	22.0	32.9	66.4	87.2	102.8	
74795-11 F	5.6	8.4							
74795-12 F	6.2	8.6							
74795-13 F	6.4	8.7	11.4	22.5	34.7	68.2	89.1	105.0	
74795-14 F	6.4	8.5	11.7	22.7	36.5	71.9			
74795-15 F	6.4	8.5							
74795-16 F	6.2	9.1							
74795-17 F	6.4	9.0							
MALES MEAN	6.5	9.0	11.9	22.9	35.9	73.2			
FEMALES MEAN	6.2	8.6	11.5	22.2	34.4	68.0			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74799-01	M	5.1	7.2	9.2	19.4	30.4	55.4		
74799-02	M	5.9	8.1	10.3	21.1	33.1	64.4	82.7	98.4
74799-03	M	5.6	7.7	10.0	21.3	33.8	65.3	45.5	57.7
74799-04	M	5.8	7.9						
74799-05	M	5.9	7.7						
74799-06	M	5.5	7.6	9.9	19.5	31.5	58.1	76.8	90.2
74799-07	M	5.5	7.7						
74799-09	M	5.7							
74799-10	F	5.3	7.4	9.7	18.6	28.9	53.7	70.8	83.8
74799-11	F	5.1	6.5	8.1	16.4	26.6	48.4	65.2	78.9
74799-12	F	5.7	7.6						
74799-13	F	5.3	7.1	9.3	18.9	29.9	57.4		
74799-14	F	5.4	6.8	8.6	18.1	29.1	52.3	69.9	86.3
MALES MEAN		5.6	7.7	9.9	20.3	32.2	60.8		
FEMALES MEAN		5.4	7.1	8.9	18.0	28.6	53.0		
74801-07	M	6.1	9.1	11.5	19.9	29.0	55.2		
74801-08	M		9.4	10.4	18.4	28.6	54.9		
74801-09	M	7.4	12.0	13.9	23.0	36.7	69.0		
74801-10	M	7.3	11.7	13.8	22.9	35.1	71.1	102.7	129.9
74801-11	F	6.5	9.6	11.0	18.5	31.1	60.8		
74801-12	F	6.8	11.2						
74801-13	F	6.1	9.0	10.7	19.4	29.9	58.1		
74801-14	F	6.6	10.2	11.9	20.8	32.8	58.7	85.3	107.1

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 3:		1000 PPM							
-----									
74801-15	F	5.8	8.9	10.5	18.5	29.6	54.6		
MALES MEAN		6.9	10.6	12.4	21.1	32.4	62.6		
FEMALES MEAN		6.4	9.8	11.0	19.3	30.9	58.1		
74806-01	M	5.9	8.3						
74806-02	M	6.1	8.8	12.5	22.7	32.8	60.0		
74806-03	M	5.8	8.5	11.6	20.0	30.6	59.8	82.0	99.5
74806-04	M	5.6	8.4						
74806-05	M	5.5	7.7						
74806-06	M	6.1	8.6	12.7	23.5	34.3	62.7	84.0	100.9
74806-07	M	6.2	9.1	12.3	22.3	31.7	58.5		
74806-08	F	6.3	8.9	12.4	22.4	33.1	60.8		
74806-09	F	6.1	8.9	12.6	23.5	35.2	62.1		
74806-10	F	5.5	7.7	10.5	19.4	28.5	54.3		
74806-11	F	5.5	7.2	9.8	18.5	27.8	51.6	65.3	102.3
74806-12	F	4.6							
74806-13	F	5.7	7.5						
74806-15	F	5.7	7.6						
MALES MEAN		5.9	8.5	12.3	22.1	32.4	60.3		
FEMALES MEAN		5.6	8.0	11.3	21.0	31.2	57.2		
74820-01	M	7.8	10.1	13.9	23.8	34.6	74.2		
74820-02	M	7.3	9.8	13.4	23.1	38.5	71.4	93.0	109.7
74820-03	M	6.8	9.7						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74820-04	M	6.2	9.2	11.9	20.6	29.4	61.4		
74820-05	M	6.1	9.3	12.2	22.1	32.8	65.3		
74820-06	F	5.9	8.4						
74820-07	F	7.4	10.6	14.1	24.0	35.9	70.0		
74820-08	F	6.9	10.3						
74820-09	F	6.5	9.4						
74820-10	F	6.3	8.9						
74820-11	F	6.4	9.2	12.7	22.7	35.9	69.7		
74820-12	F	6.8	9.4	12.7	22.2	33.2	66.6	92.2	110.8
74820-13	F	6.9	9.8						
74820-14	F	6.4	9.0						
74820-15	F	7.0	9.7	13.2	23.6	33.5	64.0		
MALES MEAN		6.8	9.6	12.9	22.4	33.8	68.1		
FEMALES MEAN		6.7	9.5	13.2	23.1	34.6	67.6		
74821-01	M	7.4	11.3	13.1	21.9	32.3	66.1	87.0	101.7
74821-02	M	6.6	9.5	10.9	18.4	27.3	55.8	69.6	83.5
74821-03	M	8.0	11.5	14.0	22.5	30.9	63.0		
74821-04	M	7.1	10.5	12.7	21.1	30.0	59.9	77.8	94.0
74821-05	M	7.5	11.5						
74821-06	M	7.3	11.4	13.0	22.7	34.2	71.4	92.6	106.0
74821-07	F	7.2	11.3	13.5	21.9	32.7	64.5	89.5	104.4
74821-08	F	7.7	11.5	13.9	23.3	37.6	70.8		

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER SEX	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 3:		1000 PPM							
-----									
74821-09 F	6.2	9.5	11.6	19.2	29.7	58.4	75.0	93.1	
MALES MEAN	7.3	11.0	12.7	21.3	30.9	63.2			
FEMALES MEAN	7.0	10.8	13.0	21.5	33.3	64.6			
74830-01 M	6.5	9.6							
74830-02 M	6.4	9.0	12.5	23.3	35.5	61.7	89.1	113.5	
74830-03 M	5.8	7.8							
74830-04 M	6.4	9.2	13.1	23.2	35.4	74.8	97.3	117.4	
74830-05 M	6.3	9.2							
74830-06 M	7.2	9.9	13.8	23.6	36.8	74.9			
74830-07 M	6.5	9.7							
74830-08 M	5.8	8.6	12.1	21.6	35.2	70.9	94.4	118.8	
74830-09 M	6.4	9.1							
74830-10 M	6.6	9.9							
74830-11 F	4.4	6.1	8.5	16.4	25.9	53.4	75.6	95.9	
74830-12 F	6.1	9.2							
74830-13 F	6.7	9.6	13.2	24.1	37.8	75.3	95.0	114.9	
74830-14 F	6.2	9.4	12.8	22.9	36.2	63.8	86.3	104.0	
74830-15 F	6.1	8.9	12.4	23.4	35.9	66.1			
MALES MEAN	6.4	9.2	12.9	22.9	35.7	70.6			
FEMALES MEAN	5.9	8.6	11.7	21.7	34.0	64.7			
74831-01 M	5.8	8.1	10.8	21.5	35.9	67.9	84.5	98.9	
74831-02 M	7.2	10.2	13.5	25.9	41.5	78.7	99.3	119.9	

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=====(LITTER AS EXPERIMENTAL UNIT)=====										
POSTNATAL DAY										
PUP NUMBER	SEX	1	4	7	14	21	28	32	35	
-----										
DAMS FROM GROUP 3:		1000 PPM								
-----										
74831-03	M	6.1	8.8							
74831-04	M	6.5	8.9							
74831-05	M	6.6	9.0							
74831-06	F	7.0	9.2							
74831-07	M	6.5	9.4							
74831-08	F	5.8	7.7	10.6	21.5	33.3	66.7			
74831-09	M	6.8	9.6							
74831-10	M	6.5	9.1	12.2	23.9	38.9	76.3			
74831-11	M	6.9	9.4							
74831-12	F	5.8	7.7	10.2	20.7	34.2	67.1	86.1	105.2	
74831-14	F	6.4	9.3							
74831-15	F	5.3	8.1							
74831-16	F	6.1	8.4	11.1	23.2	37.5	70.4	87.3	99.1	
74831-17	F	6.2	8.8							
74831-18	F	6.1	9.7	12.8	23.5	38.5	68.7	88.0	102.1	
74831-19	F	6.1	8.2							
74831-20	F	6.2	9.3							
MALES MEAN		6.5	9.2	12.2	23.8	38.8	74.3			
FEMALES MEAN		6.1	8.6	11.2	22.2	35.9	68.2			
-----										
74834-02	M	7.5	10.3	12.8	24.8	40.9	72.1			
74834-03	M	7.4	10.4							
74834-04	M	8.0	10.8	14.0	25.9	39.9	71.6	104.7	128.2	
74834-05	M	7.9	10.3	12.9	25.3	39.2	72.9			
74834-06	M	7.1	9.9	12.2	23.7	37.7	68.6			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 3:		1000 PPM						
-----								
74834-07 F	6.7	9.2	11.7	22.0	36.1	61.8	84.3	102.4
74834-08 F	7.1	10.0	13.1	24.5	41.8	68.1		
74834-09 F	7.9	11.1	14.0	25.3	41.7	73.1		
74834-10 F	7.5	10.5	13.1	24.9	41.1	67.7		
74834-11 F	7.2	10.0						
74834-12 F	6.9	9.8						
74834-13 F	7.1	9.9						
MALES MEAN	7.6	10.3	13.0	24.9	39.4	71.3		
FEMALES MEAN	7.2	10.1	13.0	24.2	40.2	67.7		
-----								
74847-02 M	6.1	8.6						
74847-03 M	6.3	9.1	11.8	20.5	31.8	65.2	89.5	114.7
74847-04 M	6.2	8.6						
74847-05 M	5.9	8.3	11.0	20.0	33.0	67.6		
74847-06 M	5.7	8.5	11.7	20.2	30.7	61.4		
74847-07 M	6.6	8.7						
74847-08 M	6.2	8.4	11.2	19.5	32.0	59.3		
74847-09 F	6.0	8.4	11.1	20.7	33.1	62.5	82.6	102.8
74847-10 F	6.3	8.9						
74847-11 F	4.5	6.3						
74847-12 F	5.5	8.1						
74847-13 F	5.6	7.7	11.0	20.1	31.7	57.6		
74847-14 F	5.9	8.8	12.1	20.6	33.4	61.3		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY						32	35
	1	4	7	14	21	28		
-----								
DAMS FROM GROUP 3:		1000 PPM						
-----								
74847-15 F	5.4	8.1	11.1	19.2	28.6	53.9		
MALES MEAN	6.1	8.6	11.4	20.1	31.9	63.4		
FEMALES MEAN	5.6	8.0	11.3	20.2	31.7	58.8		
74848-01 M	8.1	11.5	14.3	24.6	37.4	65.9		
74848-02 M	7.7	11.1	13.6	23.8	37.7	73.2		
74848-03 M	8.4	11.1	13.3	23.3	38.2	69.0	93.1	112.7
74848-04 F	7.1	9.9	12.7	22.0	34.2	62.2	87.8	106.9
74848-05 F	7.7	10.8						
74848-06 F	7.6	10.9	13.1	22.7	35.8	64.3		
74848-07 F	7.3	9.6	11.3	19.2	30.8	52.3		
74848-08 F	7.5	10.5	12.7	22.2	35.5	59.9		
74848-09 F	5.4	6.7	8.0	14.7	24.4	38.4		
74848-10 F	7.6	10.7						
74848-11 F	6.6	8.8						
MALES MEAN	8.1	11.2	13.7	23.9	37.8	69.4		
FEMALES MEAN	7.1	9.7	11.6	20.2	32.1	55.4		
74849-01 M	6.8	8.5	11.4	21.6	34.0	65.4	88.6	107.5
74849-02 M	8.1	10.0	13.6	24.3	36.0	69.8	93.9	115.6
74849-03 M	7.6	9.7	13.3	24.9	37.5	70.8	97.8	122.3
74849-04 M	7.9	10.0	13.3	22.8	33.1	65.8		
74849-05 F	7.4	9.5	12.6	21.6	31.9	62.9		
74849-06 F	7.0	9.3						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74849-07	F	6.5	8.2	10.9	20.8	30.1	54.1	73.5	88.1
74849-08	F	6.9	9.3						
74849-09	F	7.1	9.4						
74849-10	F	7.2	8.9	11.9	20.1	30.6	56.4	72.5	87.9
74849-11	F	6.7	8.7						
74849-12	F	7.2	8.7	11.9	22.8	35.8	67.3	86.3	99.3
74849-13	F	7.1	8.8						
74849-14	F	7.0	8.7						
MALES MEAN		7.6	9.6	12.9	23.4	35.2	68.0		
FEMALES MEAN		7.0	9.0	11.8	21.3	32.1	60.2		
74850-01	M	7.1	9.7						
74850-02	M	7.0	9.4						
74850-03	M	7.3	10.5	12.9	21.7	32.6	65.9		
74850-04	M	7.0	9.3	10.9	20.6	32.9	61.9		
74850-05	M	6.8	9.6	12.1	20.4	32.4	63.5	84.7	104.5
74850-06	M	7.3	9.7	12.5	22.5	33.9	63.4		
74850-07	M	7.4	9.8						
74850-08	F	6.6	9.5						
74850-09	F	5.5	7.5						
74850-10	F	6.0	7.6						
74850-11	F	4.8	6.2	7.9	14.1	22.7	44.1	58.5	75.2
74850-12	F	6.1	8.6	11.0	20.2	30.8	57.5		
74850-13	F	7.2	10.0						
74850-14	F	6.9	10.0	12.5	21.6	28.9	63.2	76.7	90.7

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 3:		1000 PPM							
74850-15 F	6.8	9.3							
74850-16 F	6.6	7.7	9.7	19.0	28.9	56.6			
MALES MEAN	7.1	9.7	12.1	21.3	33.0	63.7			
FEMALES MEAN	6.3	8.5	10.3	18.7	27.8	55.4			
74855-01 M	6.7	9.0							
74855-02 M	6.3	7.8	10.7	20.0	32.3	66.2			
74855-03 M	6.5	8.3							
74855-04 M	6.6	8.7	11.8	21.2	35.1	72.2			
74855-05 M	6.4	8.4							
74855-06 M	7.0	8.9							
74855-07 M	6.5	8.8							
74855-08 M	7.2	9.4	12.7	21.6	33.9	69.6	93.0	115.9	
74855-09 M	6.6	8.1	11.0	20.0	31.2	66.6			
74855-10 F	6.7	8.7	12.0	20.9	33.6	62.7			
74855-11 F	6.1	8.5	11.3	19.7	30.9	63.8	88.5	107.4	
74855-12 F	6.5	7.9	11.0	18.8	31.2	63.4			
74855-13 F	6.1	8.6							
74855-14 F	6.4	8.7							
74855-15 F	4.3	5.9	7.9	14.8	24.1	46.1			
74855-16 F	6.8	8.6							
MALES MEAN	6.6	8.6	11.6	20.7	33.1	68.7			
FEMALES MEAN	6.1	8.1	10.6	18.6	30.0	59.0			

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74858-01	F	6.5	9.6						
74858-02	M	6.4	9.6	13.0	23.9	38.1	73.4	99.2	123.0
74858-03	M	5.8	8.1						
74858-04	M	6.6	9.0	12.9	25.1	42.0	79.2	107.3	133.7
74858-05	M	6.6	10.1						
74858-06	M	7.8	11.1	15.9	28.8	47.1	84.7		
74858-07	M	7.1	9.7	13.6	26.4	43.1	78.1	103.5	128.6
74858-08	F	6.6	9.2						
74858-09	F	5.7	7.3	10.5	21.1	33.6	61.7	80.3	92.0
74858-10	F	5.6	7.6						
74858-11	F	4.4	5.9						
74858-12	F	6.5	9.9						
74858-13	F	6.2	8.9	12.4	23.6	37.0	67.0	85.4	98.9
74858-14	F	6.5	9.4	13.3	25.5	40.9	74.0	92.3	111.7
74858-15	F	6.6	9.4						
74858-16	F	6.1	9.0						
74858-17	F	5.7	7.8	11.1	21.8	33.4	63.8		
MALES MEAN		6.7	9.6	13.9	26.1	42.6	78.9		
FEMALES MEAN		6.0	8.5	11.8	23.0	36.2	66.6		
74868-01	M	6.4	7.3						
74868-02	M	5.4	6.4	7.0	10.6	19.6	27.1	40.1	53.1
74868-03	M	5.9	6.7						
74868-04	M	6.0	6.1						
74868-05	M	5.7	6.0						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74868-06	M	6.1	7.1						
74868-07	M	5.8	6.6						
74868-08	M	6.3	6.9						
74868-09	M	5.7	4.8						
74868-10	F	5.7	5.8						
74868-11	F	6.3	7.2						
74868-12	F	5.6	6.5						
74868-14	F	6.2	7.0						
74868-15	F	6.5	7.9						
74868-16	F	5.5	6.1	6.9	9.7	18.3	27.8		
74868-17	F	5.6	6.6	7.0	10.6	19.7	27.9	37.8	49.4
74868-18	F	5.4	4.8						
74868-19	F	5.4	5.1	5.4					
74868-20	F	5.8	6.6	7.3	11.2	21.1	34.5	47.6	60.0
74868-21	F	6.0	5.7						
MALES MEAN		5.9	6.4	7.0	10.6	19.6	27.1		
FEMALES MEAN		5.8	6.3	6.7	10.5	19.7	30.1		
74871-03	F	6.8	9.6	13.2	23.0	35.4	62.0		
74871-04	M	7.3	10.3	13.7	22.9	34.8	70.6		
74871-05	M	7.0	10.1	13.5	24.2	37.9	74.0		
74871-06	M	6.8	9.5	12.9	22.3	32.7	65.6	90.6	112.5
74871-07	F	6.8	9.9						
74871-08	F	6.6	9.5						
74871-09	F	6.6	9.1	12.5	20.5	31.3	59.2	82.2	99.1

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

		POSTNATAL DAY							
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
DAMS FROM GROUP 3:		1000 PPM							
74871-10	F	6.8	9.8	13.2	22.6	36.0	64.8		
74871-11	F	6.9	9.9						
74871-12	F	6.4	9.5	12.6	22.0	37.8	70.0		
74871-13	F	6.6	9.5						
74871-14	F	6.7	9.4	12.9	21.0	32.3	59.2		
MALES MEAN		7.0	10.0	13.4	23.1	35.1	70.1		
FEMALES MEAN		6.7	9.6	12.9	21.8	34.6	63.0		
MALES MEAN		6.7	9.3	12.0	21.5	33.4	64.1	85.6	104.8
SD		0.69	1.19	1.74	3.38	4.83	10.50	14.40	17.78
N		27	27	27	27	27	27	53	51
FEMALES MEAN		6.3	8.8	11.3	20.5	32.1	59.5	78.7	95.0
SD		0.60	1.15	1.68	3.19	4.55	8.55	12.39	14.60
N		27	27	27	27	27	27	55	53

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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                =====(LITTER AS EXPERIMENTAL UNIT)=====
                POSTNATAL DAY
PUP NUMBER SEX   1     4     7     14     21     28     32     35
-----
DAMS FROM GROUP 4:      2500 PPM
-----
74747-01 M      6.7   9.9  14.0  27.1  43.9   77.2
74747-02 M      7.0   9.7
74747-03 M      6.3   9.2  13.6  26.9  44.3   79.2  110.1  135.2
74747-04 M      5.1   6.8   9.8  18.6  33.3   61.9   85.6  107.3
74747-05 M      5.2   7.1
74747-06 M      6.5   8.0  12.7  25.9  42.9   77.6
74747-07 M      5.2   7.0
74747-08 M      6.2   8.3
74747-09 F      5.9   8.6  12.4  25.4  41.6   70.4
74747-10 F      6.8   8.9
74747-11 F      6.1   8.2
74747-12 F      6.1   8.7
74747-13 F      5.7   7.7  11.6  22.3  36.8   66.2
74747-14 F      6.0   8.1  11.5  24.0  40.6   69.5
74747-15 F      4.9   6.7
74747-16 F      7.0   9.2
74747-17 F      5.5   8.0  12.3  25.1  39.4   71.8   97.0  119.0
74747-18 F      5.1   6.9
74747-19 F      5.4   7.4
74747-20 F      6.0   8.5

    MALES MEAN      6.0   8.3  12.5  24.6  41.1   74.0
  FEMALES MEAN      5.9   8.1  12.0  24.2  39.6   69.5

74751-01 M      8.0  10.1  14.3  25.9  41.9   80.7
74751-02 M      7.6  10.4  14.6  26.5  37.2   73.8   92.8  116.3
  
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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74751-03	M	7.2	8.9						
74751-04	M	6.6	8.2	11.3	22.3	35.3	66.6	92.2	112.7
74751-05	M	7.7	10.1	14.1	25.1	40.0	74.8	99.6	125.1
74751-06	M	7.5	8.1						
74751-07	M	8.1	9.0						
74751-08	M	5.6	4.7						
74751-09	M	7.5	9.2						
74751-10	F	6.8	8.0	11.0	21.0	32.5	63.0	85.3	103.6
74751-11	F	6.9	8.6						
74751-12	F	7.6	10.1	14.1	25.0	36.7	67.0	90.5	105.4
74751-13	F	7.3	8.1	11.7	22.2	34.3	66.5	88.6	109.1
74751-14	F	7.6	9.6	13.4	24.7	39.3	71.2		
MALES MEAN		7.3	8.7	13.6	25.0	38.6	74.0		
FEMALES MEAN		7.2	8.9	12.6	23.2	35.7	66.9		
74754-01	M	7.2	9.9						
74754-02	M	7.2	10.7						
74754-03	M	7.5	10.7						
74754-04	M	5.9	8.6						
74754-05	M	7.2	10.2						
74754-06	M	6.8	9.5						
74754-07	M	7.5	10.4	14.4	25.6	42.3	79.5	100.2	119.1
74754-08	M	7.0	10.1	13.9	23.4	39.4	69.5	89.1	101.7
74754-09	M	6.7	9.6	13.3	23.9	40.5	73.4	94.7	119.1
74754-10	M	6.7	9.5	12.8	24.3	39.7	72.1		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 4: 2500 PPM								
-----								
74754-11 M	6.7	9.2						
74754-12 F	6.8	10.6	14.6	24.5	39.8	71.4	89.2	105.7
74754-13 F	6.7	9.4	12.6	22.7	37.7	67.3	82.4	97.4
74754-14 F	7.7	11.1						
74754-15 F	6.7	9.4	13.2	21.7	34.9	61.0	75.4	90.1
74754-16 F	6.6	9.0	12.5	21.9	36.4	65.3		
MALES MEAN	6.9	9.9	13.6	24.3	40.5	73.6		
FEMALES MEAN	6.9	9.9	13.2	22.7	37.2	66.3		
-----								
74755-01 F	7.1	10.4	14.6	25.6	38.9	66.9	87.4	104.6
74755-02 M	7.2	11.3	16.2	28.5	48.0	87.4	120.2	140.9
74755-03 M	7.0	11.2	15.6	26.8	43.3	74.0	99.8	120.3
74755-04 M	7.9	11.7	16.8	29.4	45.3	80.5		
74755-05 M	7.5	11.7	16.3	29.5	46.6	83.1	113.0	135.7
74755-06 M	6.5	9.8						
74755-07 M	7.2	11.4						
74755-08 M	7.4	11.7						
74755-09 F	6.9	10.5	14.5	25.8	38.6	68.9	90.4	107.9
74755-11 F	6.9	10.3	14.8	27.0	45.3	80.3	104.2	118.3
74755-12 F	6.7	10.2	15.2	26.7	42.8	74.2		
MALES MEAN	7.2	11.3	16.2	28.6	45.8	81.3		
FEMALES MEAN	6.9	10.4	14.8	26.3	41.4	72.6		
-----								
74768-01 M	6.7	8.9						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74768-02	M	6.8	11.2	14.6	24.8	34.7	69.8	99.3	124.0
74768-03	M	6.4	7.1						
74768-04	M	6.4	10.3	12.7	22.7	33.0	66.8		
74768-05	M	6.7	10.7						
74768-06	M	6.9	10.4	11.6	21.8	30.4	64.4		
74768-07	M	7.3	11.2	15.0	25.1	34.0	70.9		
74768-08	M	6.5	9.7						
74768-09	F	6.6	9.7	12.9	22.5	31.1	64.8		
74768-10	F	6.2	9.7						
74768-11	F	6.6	11.0	13.4	23.3	34.7	67.9	88.3	110.3
74768-12	F	6.2	8.5	11.0	20.2	28.6	54.5		
74768-13	F	7.1	11.2						
74768-14	F	6.0	8.0	10.9	20.0	30.8	56.9		
MALES MEAN		6.7	9.9	13.5	23.6	33.0	68.0		
FEMALES MEAN		6.5	9.7	12.1	21.5	31.3	61.0		
74769-02	M	5.8	8.1	9.2	9.6				
74769-03	M	5.5							
74769-04	M	5.7	7.4	8.3					
74769-06	M	5.6	6.6	7.8	11.7	24.0	37.9		
74769-07	M	5.1	7.1	8.1	10.9	21.3	36.3	52.2	66.9
74769-08	F	6.1	8.7	9.9	13.6	26.3	45.1	61.2	76.4
74769-09	F	5.3	6.2	6.9	9.5	20.6	35.3		
74769-10	F	5.6	8.1						
74769-11	F	5.6	7.6						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY							
	1	4	7	14	21	28	32	35
-----								
DAMS FROM GROUP 4:		2500 PPM						
-----								
74769-12 F	5.6	7.3	8.4	11.8	25.2	42.0		
74769-13 F	6.0	8.2	10.0	14.6	29.2	48.5		
74769-14 F	5.2							
74769-15 F	4.9	5.6						
74769-17 F	5.3	6.8						
MALES MEAN	5.5	7.3	8.4	10.7	22.7	37.1		
FEMALES MEAN	5.5	7.3	8.8	12.4	25.3	42.7		
-----								
74770-01 M	7.2	9.8						
74770-02 M	7.6	10.8	15.1	26.3	44.2	81.7	109.0	132.7
74770-03 M	7.5	10.2	14.4	28.5	47.6	85.8	114.1	141.5
74770-04 M	7.2	9.9						
74770-05 M	7.6	10.7	15.7	28.5	47.0	86.9		
74770-06 M	7.4	10.1	14.5	26.8	42.3	79.0	110.8	145.8
74770-07 M	7.4	10.5						
74770-08 M	7.7	10.7						
74770-09 F	7.0	9.8						
74770-10 F	6.2	8.3	12.0	23.4	40.0	72.1	99.9	121.8
74770-11 F	6.5	8.6	11.7	22.7	35.9	65.5	90.7	106.2
74770-12 F	7.3	10.5	14.5	27.4	44.1	76.5		
74770-13 F	6.2	8.6	12.0	24.4	37.7	63.1	82.6	98.4

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74770-14	F	7.1	10.1						
MALES MEAN		7.5	10.3	14.9	27.5	45.3	83.4		
FEMALES MEAN		6.7	9.3	12.6	24.5	39.4	69.3		
74784-01	M	9.4							
74784-02	M	9.1							
74784-03	M	8.3							
74784-04	F	8.5							
74784-05	F	8.4							
MALES MEAN		8.9							
FEMALES MEAN		8.5							
74786-02	M	7.5	9.1						
74786-03	M	7.4	9.9						
74786-04	M	7.6	9.8	13.8	25.5	41.7	78.8	105.6	123.4
74786-05	M	7.1	9.6	13.4	25.0	42.0	80.1	112.3	136.4
74786-06	M	6.5	9.3	13.7	25.1	38.0	73.6		
74786-07	M	6.8	9.5	13.3	24.6	36.9	72.3	103.6	128.8
74786-08	M	6.9	9.8						
74786-09	M	7.4	9.7						
74786-10	F	7.0	9.5	14.2	25.7	40.6	76.2	103.3	122.6
74786-11	F	6.7	8.9	12.8	24.4	37.3	69.4	93.6	109.0
74786-12	F	6.3	8.8	12.7	23.3	35.0	66.3		
74786-13	F	7.2	10.0						

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-----									
=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74786-14	F	6.4	9.0	12.9	24.9	40.3	72.2	92.2	109.0
74786-15	F	6.9	9.5						
MALES MEAN		7.2	9.6	13.6	25.1	39.7	76.2		
FEMALES MEAN		6.8	9.3	13.2	24.6	38.3	71.0		
74787-01	M	5.7	7.5	9.7	18.3	29.4	56.8		
74787-02	M	6.3	8.8						
74787-03	M	6.2	8.4	11.1	21.6	33.5	66.6		
74787-04	M	6.0	7.9	10.7	20.1	31.0	62.3		
74787-05	M	5.6	7.3						
74787-06	M	6.0	7.9	9.6	17.5	27.4	53.9	67.8	86.7
74787-07	M	6.3	7.7						
74787-08	F	6.4	8.2	11.1	21.1	31.9	61.5		
74787-09	F	5.1	7.2						
74787-10	F	6.0	7.9	10.4	20.4	31.0	59.5	80.2	92.7
74787-11	F	6.2	8.0						
74787-12	F	5.7	7.3						
74787-13	F	5.8	8.0	10.0	19.1	29.1	59.8		
74787-14	F	5.8	7.5						
74787-15	F	5.9	8.2	10.5	20.9	32.5	60.8		
MALES MEAN		6.0	7.9	10.3	19.4	30.3	59.9		
FEMALES MEAN		5.9	7.8	10.5	20.4	31.1	60.4		
74792-01	M	5.4	7.6	9.7	17.8	27.5	54.7		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74792-02	M	7.8	10.3						
74792-03	M	6.9	10.2	13.2	25.0	41.9	74.0	98.8	124.8
74792-04	M	7.1	9.6						
74792-05	M	6.5	9.2						
74792-06	M	7.1	9.1	11.7	21.8	34.8	69.8		
74792-07	M	6.8	9.4	13.1	24.2	38.6	74.7		
74792-08	M	6.6	8.3						
74792-09	F	6.3	8.8	11.3	22.1	36.9	69.2		
74792-10	F	5.7	7.5	10.5	18.9	33.3	61.4		
74792-11	F	6.4	8.7	11.7	21.2	37.4	65.8	86.1	109.1
74792-12	F	5.5	7.6	9.9	18.3	26.8	57.3	70.9	89.1
74792-13	F	5.7	8.2						
74792-14	F	7.2	9.7						
74792-15	F	6.6	9.5						
74792-16	F	6.3	7.4						
MALES MEAN		6.8	9.2	11.9	22.2	35.7	68.3		
FEMALES MEAN		6.2	8.4	10.9	20.1	33.6	63.4		
74803-03	M	6.4	8.1	8.0	7.8				
74803-04	M	5.7							
74803-09	F	6.3	7.4	7.6	7.5				
74803-10	F	5.5							
74803-11	F	6.2	7.8	8.0	8.3				
74803-14	F	6.5	8.2	8.1					

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER SEX	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 4: 2500 PPM									
-----									
74803-15 F	6.1								
MALES MEAN	6.1	8.1	8.0	7.8					
FEMALES MEAN	6.1	7.8	7.9	7.9					
74807-01 M	5.8	6.3	7.6	13.4	20.5	39.5			
74807-02 M	6.9	9.5							
74807-03 M	6.5	8.8							
74807-04 M	7.1	9.7	12.9	21.4	31.0	60.3			
74807-05 M	6.3	7.4	9.5	13.8	20.1	35.0	49.8	59.8	
74807-06 M	6.4	8.4	10.5	18.1	26.2	50.0			
74807-07 F	6.7								
74807-08 F	6.7	9.0	11.6	20.7	29.9	57.7	78.2	95.2	
74807-09 F	6.3	8.0							
74807-10 F	6.3	8.9							
74807-11 F	6.7	9.5	12.4	21.6	32.0	59.2			
74807-12 F	6.1	8.1	10.4	18.0	26.1	50.1			
74807-13 F	6.2	9.1	11.2	20.9	29.4	56.9			
74807-14 F	6.8	8.9							
MALES MEAN	6.5	8.4	10.1	16.7	24.5	46.2			
FEMALES MEAN	6.5	8.8	11.4	20.3	29.4	56.0			
74811-01 M	6.1	8.7	12.2	22.5	35.9	67.1	95.7	123.3	
74811-02 M	6.9	9.8							
74811-03 M	6.7	10.0							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74811-04	M	7.3	10.3						
74811-05	M	7.3	10.5	14.6	24.7	39.3	79.0		
74811-06	M	6.3	9.5	13.0	24.1	39.1	79.9		
74811-07	M	7.3	10.8	14.4	23.6	37.8	71.7		
74811-08	M	6.8	10.2						
74811-09	M	6.9	9.8						
74811-10	M	6.9	10.0						
74811-11	F	6.1	9.9						
74811-12	F	6.3	9.2	12.9	21.9	33.3	62.9		
74811-13	F	6.9	9.9	14.0	24.1	37.0	69.4	89.3	111.3
74811-14	F	6.9	10.0	14.6	24.3	40.1	73.9		
74811-15	F	6.9	9.8	13.7	22.5	33.6	59.6		
MALES MEAN		6.9	10.0	13.6	23.7	38.0	74.4		
FEMALES MEAN		6.6	9.8	13.8	23.2	36.0	66.5		
74813-01	M	6.2	9.1						
74813-02	M	5.4	7.5						
74813-03	M	5.7	7.9						
74813-04	M	6.2	7.6	10.3	18.2	28.5	58.3		
74813-05	M	5.4	7.8						
74813-06	M	5.8	7.6						
74813-07	M	6.3	8.6	12.0	21.1	32.3	63.2	84.5	103.6
74813-08	M	5.4	7.5	10.6	18.9	28.4	60.5	82.6	104.5
74813-09	M	5.5	6.9	9.9	17.7	27.2	57.1	76.9	90.2
74813-10	F	5.1	7.7						

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74813-11	F	5.6	7.8	11.4	20.9	31.5	61.7	79.8	92.5
74813-12	F	5.7	7.7	11.1	20.3	30.5	58.2	78.5	99.1
74813-13	F	5.6	7.4	10.3	20.9	27.0	54.6		
74813-14	F	5.9	8.1	11.4	20.9	31.8	59.5	76.4	90.5
MALES MEAN		5.8	7.8	10.7	19.0	29.1	59.8		
FEMALES MEAN		5.6	7.7	11.1	20.8	30.2	58.5		
74817-01	M	6.1	9.2						
74817-02	M	6.0	8.6	11.3	21.4	31.7	59.6		
74817-03	M	5.6	8.5						
74817-04	M	5.5	8.3	11.2	22.6	34.6	64.7	91.4	114.6
74817-05	M	6.6	9.4	12.6	23.9	36.4	67.2	92.5	114.1
74817-06	M	5.9	9.0	11.9	23.4	36.2	66.0	94.1	115.3
74817-07	F	6.0	8.7						
74817-08	F	5.3	8.0	10.6	21.5	33.4	60.9		
74817-09	F	6.0	8.5						
74817-10	F	5.9	8.8						
74817-11	F	6.5	9.0	11.6	23.0	34.3	60.1	77.3	92.6
74817-12	F	5.0	7.0						
74817-13	F	5.7	8.6	11.7	22.8	35.3	63.7	90.1	106.8
74817-14	F	5.7	8.0	11.1	21.3	31.8	57.5	79.6	94.9
MALES MEAN		6.0	8.8	11.8	22.8	34.7	64.4		
FEMALES MEAN		5.8	8.3	11.3	22.2	33.7	60.6		

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74822-04	M	5.9	8.6	12.3	22.2	35.1	67.5	91.3	107.8
74822-05	F	6.6	9.4						
74822-06	F	7.2	10.6	13.7	21.5	36.3	70.4	92.9	110.2
74822-07	F	7.2	10.9						
74822-08	F	7.2	10.3	15.4	24.7	40.4	73.1	100.8	123.7
74822-09	F	6.4	8.8						
74822-10	F	6.2	9.2						
74822-11	F	6.3	9.8	14.2	25.2	40.8	72.3	92.8	107.7
74822-12	F	6.8	10.3						
74822-13	F	7.2	10.5	14.7	24.9	37.6	71.2		
74822-14	M	7.0	10.0	14.0	24.4	40.7	78.3	111.5	137.7
74822-15	M	7.5	11.1	15.7	26.2	41.6	78.3	106.9	126.4
74822-16	M	6.6	9.8	14.1	23.7	38.2	70.4		
MALES MEAN		6.8	9.9	14.0	24.1	38.9	73.6		
FEMALES MEAN		6.8	10.0	14.5	24.1	38.8	71.8		
74827-02	M	6.1	8.0	9.8	18.3	29.9	58.8	80.0	94.2
74827-03	M	6.0	8.2	9.7	17.5	28.4	56.8	76.8	96.7
74827-04	M	6.5	8.1						
74827-05	M	6.5	8.6						
74827-06	M	6.6	8.3	10.2	18.8	31.7	62.7		
74827-07	M	6.8	8.1	9.7	18.3	32.2	60.9	85.5	105.8
74827-08	F	6.8	9.1						
74827-09	F	6.6	8.7						
74827-10	F	5.5	6.7	7.3	12.6	21.4	41.1		

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 170 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER SEX	POSTNATAL DAY								
	1	4	7	14	21	28	32	35	
DAMS FROM GROUP 4:		2500 PPM							
74827-11 F	5.9	7.4	9.0	16.8	26.9	50.9	69.0	81.7	
74827-12 F	4.5	5.7							
74827-13 F	6.5	7.9							
74827-14 F	5.7	6.9	8.0	15.0	27.4	50.7	69.5	83.9	
74827-15 F	6.8	8.7	10.3	19.6	31.4	60.9	80.9	96.4	
74827-16 F	5.7	7.4							
MALES MEAN	6.4	8.2	9.9	18.2	30.6	59.8			
FEMALES MEAN	6.0	7.6	8.7	16.0	26.8	50.9			
74832-02 M	6.2	9.0							
74832-03 M	6.6	8.8	12.1	23.2	34.5	65.8	93.9	117.0	
74832-04 M	6.6	9.0							
74832-05 M	6.8	9.8	12.6	21.9	33.5	64.2			
74832-06 F	6.5	8.6	11.7	21.8	35.1	61.0			
74832-07 F	5.9	8.7	11.6	21.4	32.9	59.5	80.5	96.5	
74832-08 M	6.6	9.5							
74832-09 M	6.6	9.2	12.2	22.3	32.6	63.1			
74832-10 M	6.8	9.6							
74832-11 M	6.9	9.5	12.5	23.7	36.0	66.0			
74832-12 M	7.4	9.5							
74832-13 F	6.2	8.1							
74832-14 F	6.3	9.0							
74832-15 F	6.9	9.8	13.4	24.6	38.4	66.2			

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74832-16	F	6.8	8.3	11.5	22.3	36.0	59.6		
MALES MEAN		6.7	9.3	12.4	22.8	34.2	64.8		
FEMALES MEAN		6.4	8.8	12.1	22.5	35.6	61.6		
74833-01	M	7.6	10.7						
74833-02	M	7.3	10.0	14.0	24.0	38.3	73.6	100.3	120.6
74833-03	M	7.9	11.0	15.1	24.3	41.4	74.5	101.3	123.8
74833-04	M	7.0	8.9						
74833-05	M	7.6	10.5						
74833-06	M	7.3	10.0						
74833-07	M	6.8	9.5	13.3	23.9	38.0	72.0	95.8	115.2
74833-08	M	7.3	9.5	13.5	22.6	37.9	72.9		
74833-09	F	6.9	9.4						
74833-10	F	6.4	9.5	13.6	23.1	39.8	71.5	93.6	106.9
74833-11	F	6.6	10.5	15.1	26.0	43.4	79.4	108.2	122.9
74833-12	F	6.5	9.1	13.0	22.5	36.7	70.2		
74833-13	F	6.8	10.0						
74833-14	F	6.9	8.8						
74833-15	F	6.5	9.4	13.5	23.3	37.8	66.4	85.8	98.4
MALES MEAN		7.4	10.0	14.0	23.7	38.9	73.3		
FEMALES MEAN		6.7	9.5	13.8	23.7	39.4	71.9		
74836-02	M	7.2	9.8	12.9	24.3	35.0	73.4		
74836-03	M	7.2	10.6						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74836-04	M	6.9	8.9						
74836-05	M	7.1	10.5						
74836-06	M	7.3	10.3	13.4	25.3	39.0	76.5		
74836-07	M	7.4	10.4	13.7	25.6	38.8	77.9		
74836-08	M	6.5	8.9	11.6	22.5	33.2	67.6	94.2	121.4
74836-09	F	6.6	9.4						
74836-10	F	6.9	9.4						
74836-11	F	6.4	9.5	12.7	25.3	37.6	69.2	90.2	112.1
74836-12	F	6.6	9.5	12.5	23.6	34.7	68.0	94.2	117.2
74836-13	F	6.6	9.2	12.2	24.2	35.1	63.1		
74836-14	F	6.2	8.9	11.3	22.3	33.7	64.2		
74836-15	F	6.7	9.2						
MALES MEAN		7.1	9.9	12.9	24.4	36.5	73.9		
FEMALES MEAN		6.6	9.3	12.2	23.9	35.3	66.1		
74853-01	M	6.3	8.8						
74853-02	M	6.0	8.5	10.7	22.6	34.1	66.4		
74853-03	M	6.6	9.2						
74853-04	M	6.6							
74853-05	M	6.3	9.0						
74853-06	M	6.1	8.0	10.6	21.3	31.8	60.1	81.6	103.1
74853-07	M	6.3	8.1						
74853-08	M	6.3	9.1	11.7	22.2	32.4	62.3		
74853-09	M	7.1	9.6	12.6	23.8	38.1	67.6		
74853-10	F	5.7	7.9						

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74853-11	F	5.9	7.6	10.1	19.3	28.8	55.5	77.7	97.8
74853-12	F	5.6	7.2	9.4	20.8	34.1	61.7	88.0	110.1
74853-13	F	5.9							
74853-14	F	6.5	9.3	12.2	23.6	35.6	64.9		
74853-15	F	5.0	7.3	9.6	19.2	31.7	55.7		
74853-16	F	5.7	7.6						
74853-17	F	6.3	8.9						
MALES MEAN		6.4	8.8	11.4	22.5	34.1	64.1		
FEMALES MEAN		5.8	8.0	10.3	20.7	32.6	59.5		
74857-01	M	6.8	10.8	13.5	26.2	39.8	71.9		
74857-02	M	6.8	10.4						
74857-03	M	6.3	9.3	12.3	23.9	35.0	60.0		
74857-04	M	7.0	10.6						
74857-05	M	6.6							
74857-06	M	7.2	10.7						
74857-07	M	6.3	9.2						
74857-08	M	6.6	10.0	13.5	24.4	35.5	67.1		
74857-09	F	6.4	10.3	13.4	24.1	36.2	64.0	92.0	110.9
74857-10	M	6.2	8.9	12.0	24.3	36.6	66.0	96.4	123.7
74857-11	F	6.6	9.6	13.4	24.0	38.1	65.3		
74857-12	F	6.2	9.1						
74857-13	F	6.2	9.6						
74857-14	F	6.3	9.1	11.8	22.9	33.9	60.5	90.5	111.1
74857-15	F	6.3	8.6						

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=====(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER SEX	1	4	7	14	21	28	32	35	
-----									
DAMS FROM GROUP 4: 2500 PPM									
-----									
74857-16 F	5.9	9.3	12.3	23.7	34.2	59.4			
MALES MEAN	6.6	10.0	12.8	24.7	36.7	66.3			
FEMALES MEAN	6.3	9.4	12.7	23.7	35.6	62.3			
74860-01 M	6.5	9.1	12.9	22.3	33.8	71.9	99.2	122.4	
74860-02 M	6.2	8.7	11.9	21.8	33.9	68.9	89.0	106.1	
74860-03 M	6.0	8.7	11.9	22.3	34.2	69.6	98.6	125.2	
74860-04 M	6.0	8.7							
74860-05 M	6.0	8.7	12.3	21.7	32.0	64.2			
74860-06 F	6.3	9.1	12.7	22.7	33.6	67.1	87.1	104.7	
74860-07 F	6.5	9.1	12.6	22.8	35.0	69.1			
74860-08 F	5.7	8.1	11.6	20.8	33.7	67.0	92.7	115.9	
74860-09 F	5.6	8.2	11.6	21.1	33.4	61.0	80.1	92.5	
74860-10 F	5.1	7.4							
74860-11 F	5.7	7.7							
74860-12 F	5.5	7.7							
74860-13 F	5.8	8.2							
MALES MEAN	6.1	8.8	12.3	22.0	33.5	68.7			
FEMALES MEAN	5.8	8.2	12.1	21.9	33.9	66.1			
74862-01 M	7.8	9.5	11.8	20.7	31.5	60.0			
74862-02 M	7.4	9.2	11.5	21.3	34.1	62.9	86.2	105.0	
74862-03 M	6.8	8.5							
74862-04 M	7.0	8.9							

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 =====(LITTER AS EXPERIMENTAL UNIT)=====

PUP NUMBER	SEX	POSTNATAL DAY							
		1	4	7	14	21	28	32	35
DAMS FROM GROUP 4:		2500 PPM							
74862-05	M	7.6	9.7						
74862-06	M	7.3	8.8						
74862-07	M	8.2	9.8						
74862-08	M	7.0	8.5	10.3	20.3	32.0	59.4	68.7	88.7
74862-09	M	7.1	9.2	11.5	20.7	33.2	63.5	82.7	101.7
74862-10	F	7.3	9.4						
74862-11	F	6.9	8.5	10.3	19.2	31.6	58.3	72.9	85.5
74862-12	F	6.7	7.8	9.3	17.9	27.8	54.1	71.9	84.7
74862-13	F	7.2	9.0	11.1	21.2	33.1	60.9	82.6	103.7
74862-14	F	6.5	8.4	9.5	18.2	29.2	55.4		
MALES MEAN		7.4	9.1	11.3	20.8	32.7	61.5		
FEMALES MEAN		6.9	8.6	10.1	19.1	30.4	57.2		
74866-01	M	6.2	7.3	9.6	20.1	31.1	61.3	84.0	104.0
74866-02	M	6.5	9.3						
74866-03	M	7.5	11.0	14.0	25.4	38.1	73.4		
74866-04	M	7.3	11.0	14.7	25.8	37.4	70.7		
74866-05	M	6.8	9.9						
74866-06	M	7.3	10.5						
74866-07	M	7.1	10.0						
74866-08	M	6.7	10.4						
74866-09	F	6.0	9.0	12.9	24.1	34.9	68.8		
74866-10	F	6.7	10.0	13.9	24.6	36.9	68.1		
74866-11	M	7.3	10.6	13.9	25.7	37.3	68.2		
74866-12	F	6.7	9.3						

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                =====(LITTER AS EXPERIMENTAL UNIT)=====
                POSTNATAL DAY
PUP NUMBER SEX      1      4      7      14      21      28      32      35
-----
DAMS FROM GROUP 4: 2500 PPM
-----
74866-13 F      6.3    10.0
74866-14 F      6.5    10.1    13.2    24.7    35.4    64.6
74866-15 F      6.6     9.5
74866-16 F      6.7     9.7    13.2    25.2    37.8    64.9    92.1    110.4

  MALES MEAN      7.0    10.0    13.1    24.3    36.0    68.4
  FEMALES MEAN    6.5     9.7    13.3    24.7    36.3    66.6

74870-01 M      7.3
74870-02 M      7.2    11.2    14.7    26.6    37.3    76.6
74870-03 F      6.9     9.9    13.6    25.4    36.1    75.2    105.6    128.3
74870-04 M      5.9     8.4    11.1    26.6    27.8    57.6
74870-05 M      6.9    10.4
74870-06 M      7.1    11.2    14.4    24.8    33.9    74.7    101.4    125.9
74870-07 M      7.7    12.4
74870-08 M      6.6    10.2    13.5    25.2    36.1    73.2
74870-09 M      6.9    10.1    13.3    24.9    34.0    69.8
74870-10 M      6.6    10.2    13.2    24.8    35.1    72.7
74870-11 F      5.8     9.5    12.2    21.6    28.9    55.4

  MALES MEAN      6.9    10.5    13.4    25.5    34.0    70.8
  FEMALES MEAN    6.4     9.7    12.9    23.5    32.5    65.3

  MALES MEAN      6.7     9.2    12.3    22.1    35.4    67.4    93.3    114.8
    SD      0.69    0.97    1.91    4.64    5.47    10.07    14.48    17.63
    N       27     26     26     26     25     25     50     50

  FEMALES MEAN    6.4     8.9    11.9    21.5    34.4    63.4    86.4    103.8
    SD      0.61    0.87    1.75    4.02    4.12    6.95    9.91    11.78
    N       27     26     26     26     25     25     53     53
  
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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1: 0 PPM									
-----									
74737-01	M	2.3	4.4	12.7	14.9	33.9			
74737-02	M	3.3							
74737-03	M	3.5	4.7	13.3	17.0	39.9	30.4	27.8	98.1
74737-04	M	3.2	4.5	12.9	14.7	39.3			
74737-05	M	3.4	4.8	12.3	13.1	39.9			
74737-06	F	2.9							
74737-07	M	3.3							
74737-08	F	3.0							
74737-09	F	3.0	4.7	12.9	16.6	29.7			
74737-10	F	2.8	4.1	12.3	13.7	25.7	31.4	18.7	75.8
74737-11	F	3.2	4.8	12.4	14.9	32.8			
74737-12	F	2.9							
74737-13	F	3.0							
74737-14	F	3.4	5.0	12.1	12.5	33.2	25.2	20.3	78.7
MALES MEAN		3.2	4.6	12.8	14.9	38.3			
FEMALES MEAN		3.0	4.7	12.4	14.4	30.4			
-----									
74740-02	M	3.3	4.7	9.9	13.6	37.5	30.3	21.9	89.7
74740-03	M	3.0	3.6	9.0	10.6	32.1			
74740-04	M	3.6							
74740-05	M	3.4	4.7	9.8	12.9	33.1			
74740-06	M	3.3	4.6	10.4	14.4	37.8			
74740-07	F	3.7	4.4	9.9	14.0	31.4	28.0	21.2	80.6
74740-08	F	3.6	4.4	11.0	16.4	33.9			
74740-09	F	3.7							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1:		0 PPM							
-----									
74740-10	F	3.8							
74740-11	F	2.7	3.9	9.5	12.3	28.5			
74740-12	F	3.5							
74740-13	F	3.7							
74740-14	F	3.6	4.9	9.8	12.7	14.0			
MALES MEAN		3.3	4.4	9.8	12.9	35.1			
FEMALES MEAN		3.5	4.4	10.1	13.9	27.0			
-----									
74757-03	M	2.2	4.2	10.6	14.8	37.5			
74757-04	M	1.0							
74757-05	M	3.0	4.2	11.2	14.3	34.1	25.5	11.3	70.9
74757-06	M	2.6	4.2	11.6	14.9	39.2			
74757-07	M	2.4							
74757-08	M	2.3	3.6	10.0	14.1	34.9	24.3	23.4	82.6
74757-09	M	2.5							
74757-10	M	2.5							
74757-11	F	2.4	4.2	12.0	14.0	32.9	23.4	18.9	75.2
74757-12	F	2.4	3.4	9.8	11.5	32.6			
74757-13	F	2.3	3.7	10.2	13.0	29.9			
74757-14	F	2.0	3.3	9.6	12.4	28.7			
74757-15	F	2.3							

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=(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1: 0 PPM									
-----									
74757-16	F	2.5							
MALES MEAN		2.3	4.1	10.9	14.5	36.4			
FEMALES MEAN		2.3	3.7	10.4	12.7	31.0			
74759-01	M	2.8							
74759-02	M	2.7	3.4	10.3	15.2	33.1	24.1	21.9	79.1
74759-03	M	2.6							
74759-04	M	2.5	4.0	11.5	14.4	32.6			
74759-05	M	2.5	3.8	11.6	13.7	35.0	23.8	26.4	85.2
74759-06	M	2.9							
74759-07	M	2.6	4.5	11.6	15.9	36.9			
74759-08	M	3.1							
74759-09	F	2.8	3.5	10.6	13.4	25.8	25.1	19.5	70.4
74759-10	F	2.8	3.9	9.8	12.1	30.1			
74759-11	F	2.4	3.0	9.2	10.4	25.9			
74759-12	F	2.9							
74759-13	F	2.9	3.9	10.5	14.3	32.8			
MALES MEAN		2.7	3.9	11.3	14.8	34.4			
FEMALES MEAN		2.8	3.6	10.0	12.6	28.7			
74764-01	M	3.6							
74764-02	M	3.1	3.0	13.0	11.2	34.0	32.6	28.6	95.2
74764-03	M	3.4	4.0	11.5	12.3	36.2			
74764-04	M	2.5							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74764-05	M	3.5	3.9	12.2	10.8	36.0			
74764-06	M	2.8							
74764-07	M	3.6							
74764-08	M	2.9	3.5	11.9	10.6	34.8			
74764-09	M	2.8							
74764-10	F	2.8	3.8	11.0	11.0	29.8	22.3	24.7	76.8
74764-11	F	3.4							
74764-12	F	3.1	4.2	11.0	12.1	31.7			
74764-13	F	3.4							
74764-14	F	2.4	3.5	11.3	10.5	29.9			
74764-15	F	3.2							
74764-16	F	3.4	3.9	11.9	9.6	31.4			
MALES MEAN		3.1	3.6	12.2	11.2	35.3			
FEMALES MEAN		3.1	3.9	11.3	10.8	30.7			
74767-01	M	2.7							
74767-02	M	2.3							
74767-03	M	1.4							
74767-04	M	1.6	4.0	8.9	10.9	29.4			
74767-05	M	1.7							
74767-06	M	2.1	3.1	9.8	10.1	28.6			
74767-07	M	1.5	3.5	10.2	11.0	28.1	17.8	17.4	63.3
74767-08	M	2.3	3.6	9.6	11.3	30.3			
74767-09	M	1.8							
74767-10	F	2.3	4.3	9.7	11.9	30.8	23.6	23.9	78.3

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74767-11	F	2.0	3.7	9.7	10.5	30.0			
74767-12	M	2.2							
74767-13	F	1.6							
74767-14	F	2.6	3.1	10.3	9.6	29.5			
74767-15	F	2.2							
74767-16	F	1.7	3.3	9.5	10.4	27.4	12.3	21.0	60.7
MALES MEAN		2.0	3.6	9.6	10.8	29.1			
FEMALES MEAN		2.1	3.6	9.8	10.6	29.4			
74772-01	M	2.7							
74772-02	M	2.5	4.1	12.5	18.3	32.8	29.5	25.1	87.4
74772-03	M	2.4	4.6	11.4	15.1	30.5	26.4		
74772-04	M	2.5							
74772-05	M	2.7							
74772-06	M	2.8	4.6	12.4	17.4	31.9			
74772-08	M	2.8	4.9	12.4	14.2	38.3	26.3	26.8	91.4
74772-09	F	2.6	4.5	12.7	13.4	32.1	23.7	15.9	71.7
74772-10	F	2.1	3.4	10.2	10.5	26.5	18.3		
74772-11	F	2.5	4.9	13.1	16.8	30.5	16.1		
74772-12	F	2.8							
74772-13	F	2.5	4.9	12.9	19.4	31.9			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
-----									
74772-14	F	2.8							
MALES MEAN		2.6	4.6	12.2	16.3	33.4			
FEMALES MEAN		2.6	4.4	12.2	15.0	30.3			
74773-02	M	3.4	5.5	13.6	17.4	41.8	27.8	27.8	97.4
74773-03	M	2.8							
74773-04	M	2.9	4.7	13.0	15.5	38.3			
74773-05	M	3.1	5.1	13.6	16.7	41.6			
74773-06	M	2.5							
74773-07	M	3.2	5.3	14.0	16.0	37.8			
74773-08	F	2.3	4.8	14.4	15.5	35.5	24.1	15.6	75.2
74773-09	F	1.8							
74773-10	F	3.2							
74773-11	F	3.2	5.3	13.6	16.9	35.8			
74773-12	F	3.1							
74773-13	F	3.6							
74773-14	F	2.4							
74773-15	F	1.7	4.2	10.5	13.5	30.1	26.0	18.7	74.8
74773-16	F	2.4	4.2	11.8	11.9	25.9			
MALES MEAN		3.0	5.2	13.6	16.4	39.9			
FEMALES MEAN		2.6	4.6	12.6	14.5	31.8			
74774-01	F	1.7							
74774-02	M	2.6	2.8	12.1	14.7	36.9	26.7	25.3	88.9

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1:		0 PPM							
-----									
74774-03	M	2.4	2.6	12.0	13.2	35.2	22.1	21.9	79.2
74774-04	M	2.4	1.5	10.5	12.3	29.9			
74774-05	M	1.8	2.3	11.2	12.1	35.4	20.6	19.5	75.5
74774-06	M	1.3							
74774-07	F	1.3	1.2	8.1	11.5	26.8			
74774-08	F	2.4	2.5	11.6	10.9	32.2	23.0	17.8	73.0
74774-09	F	1.9							
74774-10	F	1.5							
74774-11	F	1.4							
74774-12	F	1.4	1.3	9.5	12.2	28.3	21.9	17.0	67.2
74774-13	F	2.7							
74774-14	F	2.3							
74774-15	F	1.8	2.1	12.0	12.3	33.2	22.9	16.9	73.0
MALES MEAN		2.1	2.3	11.5	13.1	34.4			
FEMALES MEAN		1.8	1.8	10.3	11.7	30.1			
-----									
74789-01	M	2.1	3.5	11.0	13.7	35.3			
74789-02	M	2.0							
74789-03	M	2.0	3.8	12.8	15.4	36.1	27.5		
74789-04	M	0.9	2.1	9.1	13.0	29.3	19.0	18.8	67.1
74789-05	M	1.9							
74789-06	M	2.0	2.1	11.8	15.6	35.2	21.9		
74789-07	M	1.8							
74789-08	M	1.1							
74789-09	F	2.6	2.8	11.3	12.1	30.4	17.7	15.2	63.3

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=(LITTER AS EXPERIMENTAL UNIT)====

PUP NUMBER	SEX	POSTNATAL DAY							
		1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74789-10	F	2.0	3.5	12.3	14.4	31.3	17.7	15.4	64.4
74789-11	F	2.3							
74789-12	F	1.9							
74789-13	F	1.4	3.2	12.8	14.2	35.1			
74789-14	F	2.1	2.5	11.9	11.9	33.9	19.8		
MALES MEAN		1.7	2.9	11.2	14.4	34.0			
FEMALES MEAN		2.1	3.0	12.1	13.2	32.7			
74804-01	M	1.4	1.9	8.3	11.7	28.0	20.7	18.6	67.3
74804-04	M	1.3	2.0	8.2	12.1	30.7	20.0	17.5	68.2
74804-05	M	1.7							
74804-06	M	1.8	2.3	9.4	12.5	31.7			
74804-07	M	-0.6	0.9	4.9	10.8	21.3	16.9	12.0	50.2
74804-08	F	1.9	2.0	10.6	12.6	31.0	21.5	18.6	71.1
74804-09	F	1.1	1.8	9.7	12.2	26.0			
74804-10	F	1.7							
74804-11	F	1.1	2.0	9.6	12.5	26.0	6.0	19.4	51.4
74804-12	F	0.8	1.3	6.6	3.2				
74804-13	F	0.5							
MALES MEAN		1.1	1.8	7.7	11.8	27.9			
FEMALES MEAN		1.2	1.8	9.1	10.1	27.7			
74808-01	M	2.5	4.1	13.1	17.6	37.3	23.7	21.8	82.8
74808-02	M	2.9							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74808-03	M	3.1	3.6	11.9	19.6	32.6			
74808-04	M	2.5							
74808-05	M	2.0	3.3	9.4	14.8	26.7			
74808-06	M	2.6							
74808-07	M	2.6	3.5	12.7	19.1	36.2			
74808-08	F	2.7							
74808-09	F	2.5	4.0	12.3	18.0	30.8			
74808-10	F	3.0	4.1	10.5	14.1	29.2			
74808-11	F	2.4	3.5	10.7	17.6	28.4	18.3	19.9	66.6
74808-12	F	2.5							
74808-13	F	3.1	3.4	11.7	17.9	30.9	22.5	21.0	74.4
74808-14	F	2.6							
74808-15	F	2.3							
MALES MEAN		2.6	3.6	11.8	17.8	33.2			
FEMALES MEAN		2.6	3.8	11.3	16.9	29.8			
74810-01	M	1.8							
74810-02	M	1.4	2.8	11.4	16.4	29.7	26.6	22.6	78.9
74810-03	M	1.8	3.0	8.8	14.8	29.4			
74810-04	M	1.6							
74810-05	M	1.9							
74810-06	M	2.2	3.1	13.1	17.1	32.6			
74810-07	M	1.7	2.5	9.3	15.4	27.9	24.4	16.0	68.3
74810-08	F	1.9							
74810-09	F	1.5	3.3	8.5	15.5	27.9			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
-----									
74810-10	M	2.0							
74810-11	F	1.8							
74810-12	M	1.5							
74810-13	F	1.8	3.1	10.3	16.2	28.5			
74810-14	F	1.4							
74810-15	F	1.7	3.4	11.4	18.3	29.9			
74810-16	F	1.2	2.9	10.2	14.3	28.6	22.9	18.0	69.5
74810-17	F	1.7							
MALES MEAN		1.8	2.9	10.7	15.9	29.9			
FEMALES MEAN		1.6	3.2	10.1	16.1	28.7			
-----									
74826-02	M	2.4	3.6	11.0	13.4	36.9	24.0	24.4	85.3
74826-03	M	2.8							
74826-04	M	2.2	3.6	10.9	13.8	36.1	21.0	15.6	72.7
74826-05	M	2.8	4.4	11.2	15.7	36.5	27.6	26.7	90.8
74826-06	M	2.0	3.6	11.7	13.1	37.2			
74826-07	F	2.7							
74826-08	F	2.5	3.5	10.2	13.6	36.1	22.3	22.3	80.7
74826-09	F	2.4	4.3	12.2	12.7	33.4	15.5	10.9	59.8
74826-10	F	2.3	3.7	11.7	13.7	30.4			
74826-11	F	2.8	3.9	11.8	16.2	34.0	20.4	18.4	72.8

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY  
 PUP NUMBER SEX 1- 4 4- 7 7-14 14-21 21-28 28-32 32-35 21-35  
 -----  
 DAMS FROM GROUP 1: 0 PPM  
 -----

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
74826-12	F	2.6							
MALES MEAN		2.4	3.8	11.2	14.0	36.7			
FEMALES MEAN		2.6	3.9	11.5	14.1	33.5			
74829-01	M	2.5							
74829-02	M	2.1	5.2	14.9	19.6	31.0			
74829-03	M	2.2							
74829-04	M	2.2	5.3	14.3	19.6	26.6			
74829-05	M	1.9	5.3	12.6	19.7	27.0	29.8	23.2	80.0
74829-06	M	1.5	5.0	12.8	17.4	26.2			
74829-07	F	2.2	4.7	12.2	16.9	18.8			
74829-08	F	1.8							
74829-09	F	1.6							
74829-10	F	1.8							
74829-11	F	2.4	5.4	13.4	17.4	20.4	29.7	22.4	72.5
74829-12	F	1.6							
74829-13	F	1.9	5.0	13.1	18.5	24.7			
74829-14	F	2.1							
74829-15	F	2.3	5.0	13.6	17.5	22.2			
74829-16	F	2.4							
MALES MEAN		2.1	5.2	13.7	19.1	27.7			
FEMALES MEAN		2.0	5.0	13.1	17.6	21.5			
74840-01	M	4.3	3.8	13.4	21.1	47.5			

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=(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1: 0 PPM									
-----									
74840-02	M	4.7	4.2	13.2	23.7	42.3	24.7	24.2	91.2
74840-03	F	4.4	4.2	13.4	20.1	40.9	20.6	24.1	85.6
MALES MEAN		4.5	4.0	13.3	22.4	44.9			
FEMALES MEAN		4.4	4.2	13.4	20.1	40.9			
74841-02	M	2.5	4.0	11.7	15.3	38.3	20.7	15.3	74.3
74841-03	M	2.5	3.8	12.0	15.1	35.5			
74841-04	M	2.6							
74841-05	M	2.6							
74841-06	M	2.5	3.3	11.0	13.5	32.8	15.0	15.6	63.4
74841-07	M	2.9							
74841-08	F	3.0	4.0	12.7	17.2	29.7			
74841-09	F	2.7							
74841-10	F	2.7	3.5	12.3	13.7	31.2			
74841-11	M	2.7	3.8	11.4	15.0	34.4			
74841-12	F	2.8	3.6	12.0	14.0	29.4	21.3	19.3	70.0
74841-13	F	2.5	3.4	11.1	14.1	29.4			
74841-14	F	2.2							
MALES MEAN		2.6	3.7	11.5	14.7	35.3			
FEMALES MEAN		2.7	3.6	12.0	14.8	29.9			
74844-01	M	3.6	3.1	9.6	12.7	33.2			
74844-02	M	3.5	2.6	9.5	13.2	35.1	28.0	19.8	82.9
74844-03	M	3.3	2.2	10.6	12.9	34.7	26.6	18.7	80.0

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=(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1:		0 PPM							
-----									
74844-04	M	3.4	2.5	9.9	12.7	35.4	28.3	25.5	89.2
74844-05	F	2.9	2.7	9.3	11.5	28.2	26.1	16.7	71.0
74844-06	F	2.5	2.0	8.2	9.2	27.6			
74844-07	F	3.2	2.7	7.9	11.8	27.6	24.7	15.6	67.9
MALES MEAN		3.5	2.6	9.9	12.9	34.6			
FEMALES MEAN		2.9	2.5	8.5	10.8	27.8			
74845-01	M	2.6	3.4	12.9	12.6	36.4	21.8	18.9	77.1
74845-02	M	2.6	3.2	12.8	14.8	38.3			
74845-03	M	2.4	2.6	12.4	12.8	36.5	23.0	20.0	79.5
74845-04	F	1.9	2.1	10.8	11.1	30.2	18.3	17.4	65.9
74845-05	F	2.7	3.0	13.1	13.3	34.7			
74845-06	F	2.3							
74845-07	F	2.4	2.8	12.2	13.2	33.6	18.9	16.1	68.6
74845-08	F	2.5							
74845-09	F	2.6	3.8	12.4	11.4	34.7	19.2	17.3	71.2
74845-10	F	2.4							
74845-11	F	2.1							
74845-12	F	2.9	3.4	12.8	14.3	35.5	22.5	14.6	72.6
MALES MEAN		2.5	3.1	12.7	13.4	37.1			
FEMALES MEAN		2.4	3.0	12.3	12.7	33.7			
74854-02	M	1.2	1.7	10.8	11.9	31.6	23.8	19.9	75.3
74854-03	M	1.9	1.9	10.7	13.4	35.4			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74854-04	M	2.4							
74854-05	M	1.7	2.2	10.6	13.1	35.7	18.6	15.6	69.9
74854-06	M	2.9	1.4	11.7	14.6	33.5	28.9	25.4	87.8
74854-07	M	2.0							
74854-08	F	1.9	1.8	10.9	13.5	28.5	18.7	17.5	64.7
74854-09	F	1.7							
74854-10	F	2.2	2.0	9.0	12.4	28.6	18.9	16.1	63.6
74854-11	F	2.3	1.7	11.0	14.8	35.9	22.2	20.4	78.5
74854-12	F	2.4							
74854-13	F	2.4	2.2	11.4	13.8	31.8			
74854-14	F	1.9							
MALES MEAN		2.0	1.8	11.0	13.3	34.1			
FEMALES MEAN		2.1	1.9	10.6	13.6	31.2			
74864-01	M	1.2	1.5	2.7	5.9	8.4			
74864-02	M	1.7							
74864-03	M	1.9							
74864-04	M	2.0							
74864-05	M	1.9							
74864-06	M	2.1	2.7	5.1	9.4	22.5	17.4	16.9	56.8
74864-07	M	1.2							
74864-08	M	1.5							
74864-09	M	1.1	1.8	3.4	7.4	13.5			
74864-10	M	1.7	2.3	4.4	7.8	13.6			
74864-11	F	1.6							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 1:		0 PPM							
74864-12	F	1.7	2.3	4.5	10.0	15.9			
74864-13	F	1.7	2.3	5.0	10.4	16.0			
74864-14	F	1.5							
74864-15	F	1.3	1.7	2.5	4.1	9.5	13.0	12.4	34.9
74864-17	F	0.7	1.7	3.6	7.6	12.2			
MALES MEAN		1.6	2.1	3.9	7.6	14.5			
FEMALES MEAN		1.4	2.0	3.9	8.0	13.4			
74867-01	M	3.2	4.1	11.3	18.0	33.1	39.4	24.2	96.7
74867-02	M	2.9	4.0	10.7	15.7	33.7			
74867-03	M	3.4	4.1	11.3	16.0	35.3	35.9	24.2	95.4
74867-04	M	3.4							
74867-05	M	2.9	3.4	11.0	15.6	30.0			
74867-06	F	2.8	4.4	12.2	15.4	31.8			
74867-07	F	3.1	4.2	12.1	17.1	34.5	31.9	22.1	88.5
74867-08	F	2.9							
74867-09	F	3.4	4.1	11.4	16.3	32.3			
74867-10	F	3.0							
74867-11	F	3.1							
74867-12	F	3.0							
74867-13	F	3.2							

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 171 (F1)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHT CHANGES [G]

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 1:		0 PPM							
-----									
74867-14	F	3.0	4.1	9.8	14.9	26.3			
MALES MEAN		3.2	3.9	11.1	16.3	33.0			
FEMALES MEAN		3.1	4.2	11.4	15.9	31.2			
MALES MEAN		2.5	3.5	11.1	14.5	33.6	24.8	21.2	79.9
SD		0.76	1.00	2.13	3.06	5.76	5.04	4.49	11.60
N		22	22	22	22	22	42	39	39
FEMALES MEAN		2.5	3.5	10.8	13.6	29.6	21.4	18.5	70.6
SD		0.72	0.98	2.02	2.76	5.01	4.94	3.08	9.29
N		22	22	22	22	22	41	38	38

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74746-06	M	1.3	0.7	5.2	11.1	17.7	17.6	15.5	50.8
74746-08	F	1.0							
74746-09	F	1.8							
74746-10	F	1.4	1.1	7.2	12.4	20.9	22.6	17.0	60.5
74746-11	F	1.5	0.9	6.5	12.6	20.5			
74746-12	F	0.8							
74746-13	F	1.2	0.7	4.8	10.6	15.0			
MALES MEAN		1.1	0.8	5.8	11.6	16.7			
FEMALES MEAN		1.3	0.9	6.2	11.9	18.8			
74753-02	M	1.0	1.5	10.3	11.5	24.9	22.6	21.4	68.9
74753-03	M	1.3	1.8	10.8	10.0	26.5			
74753-04	M	2.0	2.7	12.3	12.2	30.7	24.8	19.2	74.7
74753-05	F	3.1							
74753-06	F	1.5							
74753-07	F	3.1							
74753-08	F	1.1	1.2	10.5	10.4	20.9			
74753-09	F	2.4	2.7	12.8	11.1	23.3			
74753-11	F	1.3							
74753-12	F	1.4	2.9	12.4	9.1	24.8	20.9	16.3	62.0
74753-13	F	2.1	2.2	11.3	11.4	25.7			
74753-14	F	1.7	2.1	11.9	9.5	25.2			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
<hr/>									
74753-15	F	2.1							
MALES MEAN		1.4	2.0	11.1	11.2	27.4			
FEMALES MEAN		2.0	2.2	11.8	10.3	24.0			
74761-02	M	0.3							
74761-03	M	0.6							
74761-04	M	0.6	1.4	4.6	10.6	14.8	16.6	12.5	43.9
74761-05	M	0.4	0.7	3.0	7.8	9.8			
74761-07	M	1.1	1.3	3.9	9.5	11.2	15.3	11.8	38.3
74761-08	M	0.3							
74761-09	M	-0.1	0.8	4.1	8.5	10.9	12.5	10.0	33.4
74761-11	F	0.2							
74761-12	F	1.0	1.2	6.4	11.6	13.6	15.6	13.7	42.9
74761-13	F	0.1	0.7	2.1	7.4	8.2			
74761-14	F	1.0							
74761-16	F	0.3	0.9	3.2	7.6	8.7	11.7	10.7	31.1
MALES MEAN		0.5	1.1	3.9	9.1	11.7			
FEMALES MEAN		0.5	0.9	3.9	8.9	10.2			
74762-01	M	1.6	0.3	5.1	9.6	17.5			
74762-02	M	1.8	0.6	5.2	9.7	15.2			
74762-03	M	1.3	0.6	4.4	9.2	15.3			
74762-04	M	1.6	0.3	5.0	7.6	13.6	11.4	15.5	40.5
74762-05	M	1.4							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74762-06	M	1.3							
74762-07	M	1.3							
74762-08	F	1.3	0.4	4.8	8.7	14.7			
74762-09	F	1.1	0.7	4.9	8.8	15.4			
74762-10	F	1.7	0.6	4.8	8.4	16.1			
74762-11	F	1.4	0.4	4.3	8.5	13.5	11.5	13.7	38.7
74762-13	F	1.6							
MALES MEAN		1.5	0.5	4.9	9.0	15.4			
FEMALES MEAN		1.4	0.5	4.7	8.6	14.9			
74765-01	M	2.5	0.5						
74765-02	F	2.6	0.7						
74765-03	F	1.7	0.2						
MALES MEAN		2.5	0.5						
FEMALES MEAN		2.2	0.5						
74782-01	M	0.7	0.2	0.9					
74782-02	M	1.0							
74782-03	M	1.6	0.2	2.5	10.8	11.8			
74782-04	M	0.8	0.2	2.8	8.7	7.8	0.2	16.3	24.3
74782-05	M	0.4							
74782-06	M	1.0							
74782-07	M	1.1							
74782-08	M	1.5	0.2	1.6	7.5	9.1			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74782-09	F	0.8	0.5	1.4	6.2	9.6	10.7	11.1	31.4
74782-10	F	0.8							
74782-11	F	1.1	0.3	1.5	7.1	10.8			
74782-12	F	0.9							
74782-13	F	1.1	0.7	2.1	8.0	7.9			
74782-14	F	0.9	0.2						
MALES MEAN		1.0	0.2	2.0	9.0	9.6			
FEMALES MEAN		0.9	0.4	1.7	7.1	9.4			
74785-01	M	2.7	1.0	11.2	11.4	28.6			
74785-02	M	2.1							
74785-03	M	2.6							
74785-04	M	2.7	1.9	9.8	8.4	36.3	21.4	22.0	79.7
74785-05	M	2.9	1.3	12.2	12.1	28.8			
74785-06	M	2.8							
74785-07	M	2.1	1.2	9.6	11.5	27.0			
74785-08	F	2.5	1.4	10.2	9.5	27.0	20.2	15.5	62.7
74785-09	F	2.9							
74785-10	F	2.0	1.1	9.4	8.9	19.7			
74785-11	F	2.6							
74785-12	F	2.2							
74785-13	F	2.0	1.5	10.0	10.6	25.0			
74785-14	F	1.8	1.2	10.2	10.6	28.7			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
-----									
74785-15	F	2.6							
MALES MEAN		2.6	1.4	10.7	10.9	30.2			
FEMALES MEAN		2.3	1.3	10.0	9.9	25.1			
74790-01	M	2.7	2.3	12.7	13.0	33.8	28.0	20.5	82.3
74790-02	M	2.7	2.8	12.2	14.4	34.9	28.4	23.8	87.1
74790-03	M	2.9							
74790-04	M	3.0	3.3	12.7	15.5	33.4			
74790-05	M	1.6							
74790-06	M	2.2							
74790-08	M	2.0							
74790-09	M	2.8	3.4	12.8	13.8	30.9	20.2	21.0	72.1
74790-10	M	1.6							
74790-11	F	2.4	2.4	12.4	13.4	30.5	25.9	15.4	71.8
74790-13	F	2.4							
74790-14	F	2.4	2.2	13.0	12.9	25.4	24.4	20.2	70.0
74790-15	F	2.4	2.6	12.7	15.5	27.9	20.2	18.9	67.0
74790-16	F	2.7	2.9	12.4	13.8	29.1			
MALES MEAN		2.4	3.0	12.6	14.2	33.3			
FEMALES MEAN		2.5	2.5	12.6	13.9	28.2			
74796-01	M	2.3							
74796-02	M	2.6	2.2	10.6	12.5	29.3			
74796-03	M	2.6							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74796-04	M	2.5							
74796-05	M	3.3	3.3	12.6	15.7	31.9			
74796-06	M	2.6							
74796-07	M	2.4	2.4	9.4	13.2	26.6	21.5	20.0	68.1
74796-08	M	2.4							
74796-09	M	2.7	2.9	12.2	13.1	32.8			
74796-10	M	2.4							
74796-11	F	3.0							
74796-12	F	1.9	1.9	7.9	10.6	22.1			
74796-13	F	2.7	2.6	11.1	12.3	31.5			
74796-14	F	2.6	3.1	12.3	15.1	26.7			
74796-15	F	3.1	3.0	12.1	17.3	27.0	26.3	21.6	74.9
MALES MEAN		2.6	2.7	11.2	13.6	30.2			
FEMALES MEAN		2.7	2.7	10.9	13.8	26.8			
74797-01	M	2.1	3.2	11.3	13.0	30.3	23.1	19.8	73.2
74797-02	M	2.2							
74797-03	M	2.3							
74797-04	M	2.2							
74797-05	M	2.1							
74797-06	M	2.1	2.7	8.5	11.6	29.2			
74797-07	M	1.8							
74797-08	M	2.2							
74797-09	M	2.2	3.0	11.3	11.4	33.4	23.1	25.3	81.8
74797-10	F	2.6	2.8	11.6	12.0	28.4	16.3	11.6	56.3

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74797-11	F	2.1	3.1	9.8	12.4	27.9	17.3	13.1	58.3
74797-12	F	1.9	2.8	11.2	12.4	26.7	19.6	19.7	66.0
74797-13	F	2.7	2.8	11.4	12.0	27.9			
MALES MEAN		2.1	3.0	10.4	12.0	31.0			
FEMALES MEAN		2.3	2.9	11.0	12.2	27.7			
74798-01	M	0.1	1.1	5.2	11.5	18.0			
74798-02	M	0.8							
74798-03	M	0.5	1.9	7.0	13.3	20.8			
74798-04	M	0.4	1.8	8.0	15.2	27.4	21.7	17.8	66.9
74798-05	M	-0.3							
74798-06	F	0.5							
74798-07	F	0.7	0.7	6.7	14.8	23.7			
74798-08	F	0.9							
74798-09	F	0.5	0.6	6.2	14.0	18.3			
74798-10	F	-1.0							
74798-11	F	0.5							
74798-12	F	0.4	1.4	6.5	12.7	21.6	19.2	17.3	58.1
74798-13	F	0.1	1.5	4.5	12.6	18.6	15.4	18.9	52.9
74798-14	F	0.5							
MALES MEAN		0.3	1.6	6.7	13.3	22.1			
FEMALES MEAN		0.3	1.1	6.0	13.5	20.6			
74802-01	M	3.3	3.7	13.4	14.8	37.1			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74802-02	M	2.6							
74802-03	M	2.7	3.6	13.2	12.4	30.5			
74802-04	M	2.5							
74802-05	M	2.5	4.0	13.6	14.0	30.9	34.3	24.9	90.1
74802-06	M	2.9							
74802-07	M	3.2							
74802-08	M	3.0	3.7	12.2	13.4	31.9	28.3	23.7	83.9
74802-09	F	2.2							
74802-10	F	2.3	1.5	11.4	10.8	23.2	15.9	21.9	61.0
74802-11	F	2.0							
74802-12	F	2.1	3.7	13.1	14.9	32.4			
74802-13	F	2.0	2.3	11.1	9.4	26.7			
74802-14	F	3.0	2.7	12.6	13.4	26.7			
74802-15	F	2.1							
74802-16	F	2.6							
MALES MEAN		2.8	3.8	13.1	13.7	32.6			
FEMALES MEAN		2.3	2.6	12.1	12.1	27.3			
-----									
74809-01	M	2.8							
74809-02	M	2.9	3.2	9.6	16.0	38.8	25.2	19.9	83.9
74809-03	M	3.0	3.1	10.3	14.8	36.8	22.9	15.1	74.8
74809-04	F	3.0	3.2	9.9	15.3	35.7			
74809-05	F	2.5							
74809-06	F	2.5	2.9	9.9	13.8	31.9	20.7	15.4	68.0
74809-07	F	2.3							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74809-08	F	2.8	3.2	9.6	15.6	32.8	20.6	18.2	71.6
74809-09	M	2.5	3.4	9.8	17.6	39.6	24.5	26.6	90.7
74809-10	M	2.8	3.0	9.4	15.1	33.8			
74809-11	F	2.7							
74809-12	F	2.3							
74809-13	F	2.4	2.8	10.0	13.3	31.4	16.6	12.7	60.7
MALES MEAN		2.8	3.2	9.8	15.9	37.3			
FEMALES MEAN		2.6	3.0	9.9	14.5	33.0			
74812-01	M	0.5	0.4						
74812-02	M	0.8	0.6						
74812-03	M	0.8	0.6						
74812-04	M	0.4	0.7						
74812-06	F	0.5							
74812-07	F	0.4	-0.1						
74812-08	F	0.1							
74812-09	F	0.0							
74812-11	F	0.0							
74812-12	F	0.2	0.3						
74812-13	F	0.1							
74812-14	F	0.2	0.4						

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74812-15	F	-0.1							
MALES MEAN		0.6	0.6						
FEMALES MEAN		0.2	0.2						
74816-01	M	3.1	3.3	12.0	12.7	35.3			
74816-02	M	3.1							
74816-03	M	2.5	3.0	10.2	11.1	34.6			
74816-04	M	2.4							
74816-05	M	2.9	3.1	11.9	12.7	35.6	23.8	24.4	83.8
74816-07	M	3.5	3.7	12.7	14.7	38.7			
74816-08	F	3.8							
74816-09	F	3.5							
74816-10	F	3.3	3.3	12.1	11.0	32.7			
74816-11	F	2.9	2.6	10.2	12.0	27.8			
74816-12	F	3.7	3.2	12.3	11.9	37.3	23.9	20.2	81.4
74816-13	F	2.6	2.8	11.0	10.0	29.4			
74816-14	F	3.2							
74816-15	F	3.2							
74816-16	F	2.7							
MALES MEAN		2.9	3.3	11.7	12.8	36.1			
FEMALES MEAN		3.2	3.0	11.4	11.2	31.8			
74819-01	M	1.7	2.7	11.9	11.5	30.7	19.3	15.2	65.2
74819-02	M	2.2	3.5	11.5	11.0	32.3			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74819-03	M	1.7	3.9	11.8	11.5	35.5	27.5	20.5	83.5
74819-04	M	2.0	3.2	11.8	10.3	32.1	22.0	14.9	69.0
74819-05	M	1.7							
74819-06	F	1.4	3.0	9.8	9.5	30.7	17.2	14.6	62.5
74819-07	F	1.3							
74819-08	F	1.5							
74819-09	F	1.2							
74819-10	F	1.3	2.9	9.4	9.9	28.3	19.1	19.0	66.4
74819-11	F	1.9	3.3	10.0	9.4	32.4	19.1	15.5	67.0
74819-12	F	1.4	3.1	11.2	9.9	29.7			
74819-13	F	1.6							
MALES MEAN		1.9	3.3	11.8	11.1	32.7			
FEMALES MEAN		1.5	3.1	10.1	9.7	30.3			
74823-01	M	2.5	2.6	12.4	17.4	32.4	24.0	24.2	80.6
74823-02	M	2.3							
74823-03	M	2.2	2.4	12.3	14.8	35.0	20.7	15.8	71.5
74823-04	M	1.6							
74823-05	M	2.0	2.4	11.7	15.7	34.5	21.4	20.1	76.0
74823-06	M	1.9	1.9	11.9	14.6	29.7			
74823-07	F	2.0	2.2	11.5	16.3	29.6			
74823-08	F	2.4							
74823-09	F	2.3	2.4	10.5	18.7	31.7	13.1	12.3	57.1
74823-10	F	2.1							
74823-11	F	2.0	2.6	12.9	16.9	28.5	10.2	11.5	50.2

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=(LITTER AS EXPERIMENTAL UNIT)====

PUP NUMBER	SEX	POSTNATAL DAY							
		1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74823-12	F	2.6	2.3	12.4	13.5	29.4	22.0	17.9	69.3
74823-13	F	2.4							
74823-14	F	2.5							
74823-15	F	2.0							
74823-16	F	2.3							
MALES MEAN		2.1	2.3	12.1	15.6	32.9			
FEMALES MEAN		2.3	2.4	11.8	16.4	29.8			
74824-01	M	1.8	0.8	5.6	8.0	17.7			
74824-02	M	2.5							
74824-03	M	1.5	1.1						
74824-04	M	2.0							
74824-05	M	2.1	0.5	3.9	6.6	16.8	15.6	16.7	49.1
74824-06	M	2.4							
74824-07	M	1.9	1.0	4.8	10.2	20.6	20.1	14.4	55.1
74824-08	M	1.0							
74824-09	F	2.6	1.5	7.4	10.4	21.8	19.5	12.2	53.5
74824-10	F	1.9	0.7	5.5	8.9	18.8			
74824-11	F	1.8	1.5	4.4	10.8	21.3	19.9	18.8	60.0
74824-12	F	1.6							
74824-13	F	1.8							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74824-14	F	2.3	2.0	5.4	7.6	19.5	18.0	11.4	48.9
MALES MEAN		1.9	0.9	4.8	8.3	18.4			
FEMALES MEAN		2.0	1.4	5.7	9.4	20.4			
74835-01	M	2.0	3.2	9.7	14.9	32.9			
74835-02	M	2.3	2.5	9.1	16.4	24.4			
74835-03	M	2.1	3.0	10.2	13.8	33.6	25.4	22.9	81.9
74835-04	M	2.1							
74835-05	M	1.8							
74835-06	M	2.2	3.4	11.3	15.5	32.7			
74835-07	F	2.1	3.2	10.8	13.5	31.2	21.7	19.8	72.7
74835-08	F	1.7	3.0						
74835-09	F	1.7							
74835-10	F	2.2							
74835-11	F	2.4	0.6	6.6	7.6	24.6	15.9	14.7	55.2
74835-12	F	2.3							
74835-13	F	2.1							
74835-14	F	1.8	3.3	11.6	16.3	30.6			
MALES MEAN		2.1	3.0	10.1	15.2	30.9			
FEMALES MEAN		2.0	2.5	9.7	12.5	28.8			
74838-01	M	2.6							
74838-02	M	2.7							
74838-03	M	2.6							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74838-05	M	2.6	3.9	11.5	10.8	36.2			
74838-06	M	2.4	3.7	10.7	10.2	32.2	24.7	21.9	78.8
74838-07	M	1.9							
74838-08	M	2.7	3.9	9.9	9.7	31.2			
74838-09	M	2.5	3.4	11.2	11.9	33.3			
74838-10	F	1.7	3.1	10.4	9.5	30.5			
74838-11	F	2.7	3.9	10.7	11.7	31.6	21.0	16.9	69.5
74838-12	F	2.5	4.3	11.3	11.2	32.8			
74838-13	F	2.4							
74838-14	F	2.7	4.2	11.8	12.6	35.8			
74838-15	F	2.4							
74838-16	F	2.3							
74838-17	F	2.7							
MALES MEAN		2.5	3.7	10.8	10.7	33.2			
FEMALES MEAN		2.4	3.9	11.1	11.3	32.7			
74839-02	M	2.4	2.6	10.5	12.5	33.8	25.1	22.3	81.2
74839-03	M	2.1							
74839-04	M	2.6							
74839-05	M	2.6	2.6	11.0	12.1	31.4			
74839-06	M	2.5							
74839-07	M	2.8	2.3	9.2	12.4	29.1			
74839-08	F	1.9							
74839-09	M	2.2	1.5	8.8	9.9	19.4			
74839-10	F	1.7	2.2	9.1	10.5	26.3			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74839-11	M	2.3							
74839-12	F	1.6	1.9	8.6	10.1	24.7			
74839-13	F	2.6							
74839-15	F	2.2							
74839-16	F	1.9							
74839-17	F	1.7	1.6	8.3	10.5	27.6			
74839-18	F	1.7	2.5	9.5	10.6	28.3	22.9	18.7	69.9
MALES MEAN		2.4	2.3	9.9	11.7	28.4			
FEMALES MEAN		1.9	2.1	8.9	10.4	26.7			
-----									
74846-02	M	4.2	3.9	14.2	16.2	41.5			
74846-03	M	3.1	5.0	14.4	16.6	40.0	29.7	26.4	96.1
74846-04	M	2.8	4.4	14.1	14.3	36.6			
74846-05	M	3.7	4.4	13.9	16.1	39.2			
74846-06	M	2.7							
74846-07	F	3.8	4.6	13.4	15.4	32.7	24.3	25.4	82.4
74846-08	F	3.0	4.5	13.0	14.4	31.9			
74846-09	F	2.9	3.8	13.3	13.6	32.8			
74846-10	F	3.4							
74846-11	F	3.3							
74846-12	F	2.5	3.6	12.1	13.3	32.7			
74846-13	F	1.9							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74846-14	F	3.0							
MALES MEAN		3.3	4.4	14.2	15.8	39.3			
FEMALES MEAN		3.0	4.1	13.0	14.2	32.5			
74856-01	M	2.8	2.8	12.0	14.6	29.7			
74856-02	M	2.2	2.4	10.2	12.7	31.9			
74856-03	M	2.7							
74856-04	M	2.1	2.3	9.7	12.0	33.7			
74856-05	M	2.1							
74856-06	M	1.8	1.7	8.1	8.3	27.0	16.5	19.1	62.6
74856-07	F	2.1							
74856-08	F	2.2	2.9	11.1	15.7	24.9			
74856-09	F	3.1							
74856-10	F	1.9							
74856-12	F	2.9	2.4	10.4	13.7	27.9			
74856-13	F	2.8	2.4	11.8	16.4	27.3			
74856-14	F	2.7							
74856-15	F	1.8	1.2	7.5	5.1	23.8	5.3	14.4	43.5
74856-16	F	2.4							
74856-17	F	2.4							
MALES MEAN		2.3	2.3	10.0	11.9	30.6			
FEMALES MEAN		2.4	2.2	10.2	12.7	26.0			
74859-01	M	3.2	4.2	12.1	15.9	30.9			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74859-02	M	2.7	3.7	11.0	12.4	25.3	31.7	22.7	79.7
74859-03	M	1.9							
74859-04	M	2.1	2.2	9.2	9.1	25.0	29.8	27.5	82.3
74859-05	M	2.9							
74859-06	M	1.5	1.2	4.1	8.1	14.7	17.3	14.6	46.6
74859-07	F	2.2	2.9	10.5	12.3	24.8			
74859-08	F	2.6							
74859-09	F	2.8	2.7	9.3	12.9	24.2	25.8	18.6	68.6
74859-10	F	2.7	3.8	11.1	15.5	25.9	30.2	21.4	77.5
74859-11	F	1.6							
74859-12	F	2.1	3.0	11.0	13.2	27.1	26.1	18.5	71.7
74859-13	F	2.8							
MALES MEAN		2.4	2.8	9.1	11.4	24.0			
FEMALES MEAN		2.4	3.1	10.5	13.5	25.5			
74861-01	M	2.4	2.6	8.5	13.6	26.2			
74861-02	M	2.5	2.1	7.5	13.5	17.0	17.1	12.9	47.0
74861-03	M	1.9	1.6	4.0	10.6	17.0	15.7	17.5	50.2
74861-04	F	1.9	1.5	4.3	12.5	19.3			
74861-05	F	2.2	1.9	5.9	13.8	21.1	16.4	15.6	53.1
MALES MEAN		2.3	2.1	6.7	12.6	20.1			
FEMALES MEAN		2.1	1.7	5.1	13.2	20.2			
74863-01	M	3.4	4.1	10.6	17.0	36.0	23.2	22.4	81.6

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 2:		500 PPM							
74863-02	M	3.8	4.7	10.5	17.8	35.8	27.0	26.4	89.2
74863-03	M	3.4	3.5	11.3	16.0	33.4			
74863-04	M	3.4							
74863-05	M	3.3	4.4	10.8	19.0	34.8	28.8	25.4	89.0
74863-06	F	3.5	3.7	10.8	15.2	34.0	27.9	23.3	85.2
74863-07	F	3.4							
74863-08	F	3.4							
74863-09	F	2.7	3.2	10.4	12.2	30.5	24.0	19.1	73.6
74863-10	F	3.5	3.9	10.9	18.9	34.7	23.1	20.5	78.3
74863-11	F	3.0							
74863-12	F	3.5							
74863-13	F	3.5	3.8	10.7	16.8	32.7			
MALES MEAN		3.5	4.2	10.8	17.5	35.0			
FEMALES MEAN		3.3	3.7	10.7	15.8	33.0			
74869-01	M	3.5	3.2	10.8	15.3	35.9			
74869-02	M	3.3	3.2	11.1	14.4	37.9	28.6	22.2	88.7
74869-03	M	2.5	2.4	9.4	12.7	32.7			
74869-04	F	2.9	2.7	10.4	12.1	27.9	22.2	18.2	68.3
74869-05	F	2.1	2.4	10.6	12.2	28.0			
74869-06	F	3.2							
74869-07	F	2.9	2.7	10.3	12.2	29.0			
74869-08	F	2.2							
74869-09	F	3.3	2.8	10.5	11.8	26.5			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 2:		500 PPM							
-----									
74869-10	F	3.3	2.5	10.4	12.7	33.8			
MALES MEAN		3.1	2.9	10.4	14.1	35.5			
FEMALES MEAN		2.8	2.6	10.4	12.2	29.0			
MALES MEAN		2.1	2.3	9.3	12.5	27.6	22.2	19.8	70.3
SD		0.83	1.20	3.10	2.37	8.14	6.10	4.48	17.57
N		28	28	26	26	26	45	45	45
FEMALES MEAN		2.0	2.1	9.1	12.0	25.2	19.4	16.8	62.1
SD		0.80	1.10	3.00	2.25	6.55	5.17	3.56	12.71
N		28	28	26	26	26	45	45	45

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74738-02	M	2.1	2.1	9.2	11.6	30.7	21.4	16.6	68.7
74738-03	M	2.4	2.0	8.7	11.1	26.6	18.5	14.9	60.0
74738-04	M	2.7	1.8	10.4	10.4	26.5	19.1	16.8	62.4
74738-05	M	2.7							
74738-06	M	2.6							
74738-07	F	2.5	2.1	10.1	12.5	32.5	24.7	16.4	73.6
74738-08	M	2.4	2.0	8.6	11.7	24.8			
74738-09	F	2.4							
74738-10	M	2.4							
74738-11	F	2.7	1.9	10.1	10.5	28.1	19.6	14.6	62.3
74738-12	F	2.3	1.6	8.6	11.3	25.1	18.6	15.9	59.6
74738-13	F	2.1	1.1	9.1	11.0	23.3			
74738-14	M	2.3							
MALES MEAN		2.5	2.0	9.2	11.2	27.2			
FEMALES MEAN		2.4	1.7	9.5	11.3	27.3			
74739-01	M	2.4	3.4	12.9	13.0	36.7			
74739-02	M	1.9							
74739-03	M	2.2	3.5	13.0	12.9	34.8			
74739-04	M	2.4	3.7	12.5	14.0	33.9	25.1	21.0	80.0
74739-05	M	2.8							
74739-06	M	2.3	3.3	11.5	12.2	36.0			
74739-07	F	2.2							
74739-08	F	2.6	3.4	12.6	15.7	31.9	24.1	18.4	74.4
74739-09	F	2.3							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74739-10	F	2.4	3.2	13.1	17.6	32.0			
74739-11	M	2.2							
74739-12	F	2.5							
74739-13	F	1.6	2.9	11.5	12.2	32.0			
74739-14	F	1.6	2.7	10.3	11.3	24.9			
74739-15	M	2.9							
MALES MEAN		2.4	3.5	12.5	13.0	35.4			
FEMALES MEAN		2.2	3.1	11.9	14.2	30.2			
74743-02	M	4.4	2.8	10.7	16.5	37.5			
74743-03	M	4.3							
74743-04	M	4.2	3.4	10.6	12.6	32.8	25.9	20.6	79.3
74743-05	F	4.2	2.7	10.1	13.6	29.1			
74743-06	F	4.4	2.9	9.9	14.1	32.7			
74743-08	F	4.1	3.7	10.6	15.8	31.2	20.8	21.0	73.0
74743-10	F	4.1	2.6	9.8	9.9	31.9			
74743-11	M	3.7	3.4	9.6	11.8	34.8			
74743-12	M	4.5	3.2	10.0	12.3	34.1			
74743-13	M	3.7							
MALES MEAN		4.1	3.2	10.2	13.3	34.8			
FEMALES MEAN		4.2	3.0	10.1	13.4	31.2			
74744-01	M	1.6							
74744-02	M	1.4	2.9	10.9	13.4	34.5	21.7	20.4	76.6

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74744-03	M	1.6							
74744-04	M	1.2							
74744-05	M	1.4							
74744-06	M	2.2	2.3	10.2	11.0	32.8	21.1		
74744-07	M	2.3	1.9	10.6	10.8	34.7			
74744-08	M	1.6							
74744-09	M	1.8							
74744-10	M	1.4							
74744-11	M	1.6	1.3	8.3	10.8	27.5	18.5		
74744-12	M	1.6							
74744-13	F	1.6	2.4	10.0	10.7	28.0	14.2		
74744-14	F	2.2	2.5	11.6	11.9	30.0	18.1		
74744-15	F	1.5	2.4	9.1	9.5	27.2			
74744-16	F	1.0	2.4	10.2	11.6	27.3	14.2	17.0	58.5
MALES MEAN		1.6	2.1	10.0	11.5	32.4			
FEMALES MEAN		1.6	2.4	10.2	10.9	28.1			
74748-01	M	2.0	1.3	6.5	12.2	22.2	17.1	13.4	52.7
74748-02	M	1.7	1.1	5.5	8.9	15.3	14.6	11.6	41.5
74748-04	M	2.6							
74748-05	M	2.6	1.1	5.4	11.1	21.5	15.2	15.2	51.9
74748-06	M	2.3							
74748-07	F	2.2	1.3	6.2	12.1	16.5			
74748-08	M	2.2	1.4	5.7	9.3	16.2			
74748-09	F	2.1	1.0	7.0	11.5	22.9	14.3	11.2	48.4

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=(LITTER AS EXPERIMENTAL UNIT)====

		POSTNATAL DAY							
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74748-10	F	2.3	1.3	5.6	11.5	20.3	17.5	13.1	50.9
74748-11	F	2.1	0.8	5.7	10.7	21.0	14.1	11.9	47.0
MALES MEAN		2.2	1.2	5.8	10.4	18.8			
FEMALES MEAN		2.2	1.1	6.1	11.5	20.2			
74752-02	M	1.7	3.0	6.4	12.4	29.2			
74752-04	M	2.6	2.8	10.4	12.5	27.8			
74752-05	M	1.9	3.3	10.8	11.9	28.4	26.7	23.5	78.6
74752-06	F	2.7							
74752-07	F	3.4	3.2	11.6	13.6	27.2			
74752-08	F	2.4							
74752-09	F	2.7							
74752-10	F	3.1	3.1	12.0	12.1	29.4	25.5	24.3	79.2
74752-11	F	2.3	3.7	11.7	11.9	25.3			
74752-12	F	2.7							
74752-13	F	2.6	2.8	10.8	13.1	28.3			
74752-14	F	2.3	3.2	10.6	13.0	26.4			
74752-15	F	2.3							
74752-16	F	2.5							
MALES MEAN		2.1	3.0	9.2	12.3	28.5			
FEMALES MEAN		2.6	3.2	11.3	12.7	27.3			
74766-01	M	2.3							
74766-02	M	2.5	2.9	10.3	10.9	36.4	26.3	23.1	85.8

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=(LITTER AS EXPERIMENTAL UNIT)====

PUP NUMBER	SEX	POSTNATAL DAY							
		1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74766-03	M	2.0							
74766-04	M	2.5							
74766-05	M	2.1	2.8	9.4	10.8	29.5	22.0	17.1	68.6
74766-06	M	2.3	2.6	7.9	10.0	31.3			
74766-07	M	1.8							
74766-08	M	2.1	2.8	8.7	10.6	32.5	20.2	16.9	69.6
74766-09	F	2.1							
74766-10	F	2.2	3.1	10.0	11.6	33.8			
74766-11	F	1.0							
74766-12	F	1.9	2.7	8.5	9.9	27.6	18.6	13.4	59.6
74766-13	F	1.6	2.4	8.3	9.9	28.8	20.4	12.3	61.5
74766-14	F	2.3							
74766-15	F	2.5							
74766-16	F	2.3	3.3	8.8	9.1	31.3	19.3	10.6	61.2
MALES MEAN		2.2	2.8	9.1	10.6	32.4			
FEMALES MEAN		2.0	2.9	8.9	10.1	30.4			
74780-01	M	3.8	3.4	11.0	13.4	35.6	24.0	13.8	73.4
74780-02	M	3.9	3.9	11.6	14.2	30.6			
74780-03	M	3.7	3.9	10.8	9.6	31.2	24.7	23.3	79.2
74780-04	F	4.0	3.8	11.2	13.6	34.7	27.3	16.4	78.4
74780-05	F	3.9	3.7	10.7	12.1	21.5	21.9	17.1	60.5
74780-06	F	3.1							
74780-07	F	3.9	3.7	10.8	12.8	26.3			
74780-08	F	3.1							

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=(LITTER AS EXPERIMENTAL UNIT)=====									
POSTNATAL DAY									
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 3:		1000 PPM							
-----									
74780-09	F	4.0							
74780-10	F	3.5	3.6	10.8	12.5	29.2	25.4	16.3	70.9
74780-11	F	3.7							
74780-12	F	3.8	3.4	10.8	11.1	24.1	17.9	15.1	57.1
MALES MEAN		3.8	3.7	11.1	12.4	32.5			
FEMALES MEAN		3.7	3.6	10.9	12.4	27.2			
74791-01	M	1.6							
74791-02	M	1.5	1.7	6.9	8.8	23.8	15.9	17.8	57.5
74791-03	M	1.8							
74791-04	M	1.9	2.2	6.9	9.2	27.3	19.7	18.7	65.7
74791-05	M	1.4	1.7	8.0	10.1	25.1	21.1	18.9	65.1
74791-06	M	2.0	1.4	6.6	10.2	24.3			
74791-07	M	1.3							
74791-08	F	1.0	1.6	6.6	8.8	21.7	16.0	8.9	46.6
74791-10	F	1.8	1.6	6.5	9.6	23.1	15.9	12.6	51.6
74791-11	F	1.6							
74791-12	F	2.0	1.4	7.5	8.9	26.6			
74791-13	F	1.8	1.9	6.8	8.8	23.6	20.2	13.2	57.0
MALES MEAN		1.6	1.8	7.1	9.6	25.1			
FEMALES MEAN		1.6	1.6	6.9	9.0	23.8			
74793-01	M	2.9	3.2	8.2	9.7	29.8			
74793-02	M	2.7							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74793-03	M	2.1							
74793-04	M	2.6	2.2	6.6	8.8	27.0			
74793-05	M	3.5	3.3	8.1	9.8	30.2	19.7	19.0	68.9
74793-06	M	1.9	2.1	6.0	10.6	26.3			
74793-07	F	2.3							
74793-08	F	2.8							
74793-09	F	2.6							
74793-10	F	2.5	2.0	4.4	4.2	19.1			
74793-11	F	3.5							
74793-12	F	2.4	2.1	6.5	8.5	23.5			
74793-13	F	2.6							
74793-14	F	3.1	2.3	7.7	11.0	28.5	17.2	16.6	62.3
74793-15	F	2.4							
74793-16	F	2.5	2.7	6.3	10.9	27.2			
74793-17	F	1.9							
MALES MEAN		2.6	2.7	7.2	9.7	28.3			
FEMALES MEAN		2.6	2.3	6.2	8.7	24.6			
74795-01	M	2.4							
74795-02	M	3.0							
74795-03	M	2.4	3.4	11.2	13.1	37.2	23.4	18.1	78.7
74795-04	M	2.1	3.1	10.5	12.3	34.8	24.9	20.4	80.1
74795-05	M	2.0	3.5	11.3	13.1	37.8			
74795-06	M	2.3	3.2	11.1	13.4	39.2	26.8	22.4	88.4
74795-07	M	3.1							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 3:		1000 PPM							
-----									
74795-08	M	2.9							
74795-09	F	2.4	3.0	9.8	12.0	32.1	21.5	22.6	76.2
74795-10	F	2.2	3.0	10.8	10.9	33.5	20.8	15.6	69.9
74795-11	F	2.8							
74795-12	F	2.4							
74795-13	F	2.3	2.7	11.1	12.2	33.5	20.9	15.9	70.3
74795-14	F	2.1	3.2	11.0	13.8	35.4			
74795-15	F	2.1							
74795-16	F	2.9							
74795-17	F	2.6							
MALES MEAN		2.5	3.3	11.0	13.0	37.3			
FEMALES MEAN		2.4	3.0	10.7	12.2	33.6			
-----									
74799-01	M	2.1	2.0	10.2	11.0	25.0			
74799-02	M	2.2	2.2	10.8	12.0	31.3	18.3	15.7	65.3
74799-03	M	2.1	2.3	11.3	12.5	31.5	-19.8	12.2	23.9
74799-04	M	2.1							
74799-05	M	1.8							
74799-06	M	2.1	2.3	9.6	12.0	26.6	18.7	13.4	58.7
74799-07	M	2.2							
74799-10	F	2.1	2.3	8.9	10.3	24.8	17.1	13.0	54.9
74799-11	F	1.4	1.6	8.3	10.2	21.8	16.8	13.7	52.3
74799-12	F	1.9							
74799-13	F	1.8	2.2	9.6	11.0	27.5			
74799-14	F	1.4	1.8	9.5	11.0	23.2	17.6	16.4	57.2
MALES MEAN		2.1	2.2	10.5	11.9	28.6			
FEMALES MEAN		1.7	2.0	9.1	10.6	24.3			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74801-07	M	3.0	2.4	8.4	9.1	26.2			
74801-08	M		1.0	8.0	10.2	26.3			
74801-09	M	4.6	1.9	9.1	13.7	32.3			
74801-10	M	4.4	2.1	9.1	12.2	36.0	31.6	27.2	94.8
74801-11	F	3.1	1.4	7.5	12.6	29.7			
74801-12	F	4.4							
74801-13	F	2.9	1.7	8.7	10.5	28.2			
74801-14	F	3.6	1.7	8.9	12.0	25.9	26.6	21.8	74.3
74801-15	F	3.1	1.6	8.0	11.1	25.0			
MALES MEAN		4.0	1.9	8.7	11.3	30.2			
FEMALES MEAN		3.4	1.6	8.3	11.6	27.2			
74806-01	M	2.4							
74806-02	M	2.7	3.7	10.2	10.1	27.2			
74806-03	M	2.7	3.1	8.4	10.6	29.2	22.2	17.5	68.9
74806-04	M	2.8							
74806-05	M	2.2							
74806-06	M	2.5	4.1	10.8	10.8	28.4	21.3	16.9	66.6
74806-07	M	2.9	3.2	10.0	9.4	26.8			
74806-08	F	2.6	3.5	10.0	10.7	27.7			
74806-09	F	2.8	3.7	10.9	11.7	26.9			
74806-10	F	2.2	2.8	8.9	9.1	25.8			
74806-11	F	1.7	2.6	8.7	9.3	23.8	13.7	37.0	74.5
74806-13	F	1.8							

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=(LITTER AS EXPERIMENTAL UNIT)=====										
POSTNATAL DAY										
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35	
-----										
DAMS FROM GROUP 3:		1000 PPM								
-----										
74806-15	F	1.9								
MALES MEAN		2.6	3.5	9.9	10.2	27.9				
FEMALES MEAN		2.2	3.2	9.6	10.2	26.1				
74820-01	M	2.3	3.8	9.9	10.8	39.6				
74820-02	M	2.5	3.6	9.7	15.4	32.9	21.6	16.7	71.2	
74820-03	M	2.9								
74820-04	M	3.0	2.7	8.7	8.8	32.0				
74820-05	M	3.2	2.9	9.9	10.7	32.5				
74820-06	F	2.5								
74820-07	F	3.2	3.5	9.9	11.9	34.1				
74820-08	F	3.4								
74820-09	F	2.9								
74820-10	F	2.6								
74820-11	F	2.8	3.5	10.0	13.2	33.8				
74820-12	F	2.6	3.3	9.5	11.0	33.4	25.6	18.6	77.6	
74820-13	F	2.9								
74820-14	F	2.6								
74820-15	F	2.7	3.5	10.4	9.9	30.5				
MALES MEAN		2.8	3.3	9.6	11.4	34.3				
FEMALES MEAN		2.8	3.5	10.0	11.5	33.0				
74821-01	M	3.9	1.8	8.8	10.4	33.8	20.9	14.7	69.4	
74821-02	M	2.9	1.4	7.5	8.9	28.5	13.8	13.9	56.2	

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74821-03	M	3.5	2.5	8.5	8.4	32.1			
74821-04	M	3.4	2.2	8.4	8.9	29.9	17.9	16.2	64.0
74821-05	M	4.0							
74821-06	M	4.1	1.6	9.7	11.5	37.2	21.2	13.4	71.8
74821-07	F	4.1	2.2	8.4	10.8	31.8	25.0	14.9	71.7
74821-08	F	3.8	2.4	9.4	14.3	33.2			
74821-09	F	3.3	2.1	7.6	10.5	28.7	16.6	18.1	63.4
MALES MEAN		3.6	1.9	8.6	9.6	32.3			
FEMALES MEAN		3.7	2.2	8.5	11.9	31.2			
74830-01	M	3.1							
74830-02	M	2.6	3.5	10.8	12.2	26.2	27.4	24.4	78.0
74830-03	M	2.0							
74830-04	M	2.8	3.9	10.1	12.2	39.4	22.5	20.1	82.0
74830-05	M	2.9							
74830-06	M	2.7	3.9	9.8	13.2	38.1			
74830-07	M	3.2							
74830-08	M	2.8	3.5	9.5	13.6	35.7	23.5	24.4	83.6
74830-09	M	2.7							
74830-10	M	3.3							
74830-11	F	1.7	2.4	7.9	9.5	27.5	22.2	20.3	70.0
74830-12	F	3.1							
74830-13	F	2.9	3.6	10.9	13.7	37.5	19.7	19.9	77.1
74830-14	F	3.2	3.4	10.1	13.3	27.6	22.5	17.7	67.8

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74830-15	F	2.8	3.5	11.0	12.5	30.2			
MALES MEAN		2.8	3.7	10.1	12.8	34.9			
FEMALES MEAN		2.7	3.2	10.0	12.3	30.7			
74831-01	M	2.3	2.7	10.7	14.4	32.0	16.6	14.4	63.0
74831-02	M	3.0	3.3	12.4	15.6	37.2	20.6	20.6	78.4
74831-03	M	2.7							
74831-04	M	2.4							
74831-05	M	2.4							
74831-06	F	2.2							
74831-07	M	2.9							
74831-08	F	1.9	2.9	10.9	11.8	33.4			
74831-09	M	2.8							
74831-10	M	2.6	3.1	11.7	15.0	37.4			
74831-11	M	2.5							
74831-12	F	1.9	2.5	10.5	13.5	32.9	19.0	19.1	71.0
74831-14	F	2.9							
74831-15	F	2.8							
74831-16	F	2.3	2.7	12.1	14.3	32.9	16.9	11.8	61.6
74831-17	F	2.6							
74831-18	F	3.6	3.1	10.7	15.0	30.2	19.3	14.1	63.6
74831-19	F	2.1							

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=(LITTER AS EXPERIMENTAL UNIT)=====										
POSTNATAL DAY										
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35	
-----										
DAMS FROM GROUP 3:		1000 PPM								
-----										
74831-20	F	3.1								
MALES MEAN		2.6	3.0	11.6	15.0	35.5				
FEMALES MEAN		2.5	2.8	11.1	13.7	32.4				
74834-02	M	2.8	2.5	12.0	16.1	31.2				
74834-03	M	3.0								
74834-04	M	2.8	3.2	11.9	14.0	31.7	33.1	23.5	88.3	
74834-05	M	2.4	2.6	12.4	13.9	33.7				
74834-06	M	2.8	2.3	11.5	14.0	30.9				
74834-07	F	2.5	2.5	10.3	14.1	25.7	22.5	18.1	66.3	
74834-08	F	2.9	3.1	11.4	17.3	26.3				
74834-09	F	3.2	2.9	11.3	16.4	31.4				
74834-10	F	3.0	2.6	11.8	16.2	26.6				
74834-11	F	2.8								
74834-12	F	2.9								
74834-13	F	2.8								
MALES MEAN		2.8	2.7	12.0	14.5	31.9				
FEMALES MEAN		2.9	2.8	11.2	16.0	27.5				
74847-02	M	2.5								
74847-03	M	2.8	2.7	8.7	11.3	33.4	24.3	25.2	82.9	
74847-04	M	2.4								
74847-05	M	2.4	2.7	9.0	13.0	34.6				
74847-06	M	2.8	3.2	8.5	10.5	30.7				

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74847-07	M	2.1							
74847-08	M	2.2	2.8	8.3	12.5	27.3			
74847-09	F	2.4	2.7	9.6	12.4	29.4	20.1	20.2	69.7
74847-10	F	2.6							
74847-11	F	1.8							
74847-12	F	2.6							
74847-13	F	2.1	3.3	9.1	11.6	25.9			
74847-14	F	2.9	3.3	8.5	12.8	27.9			
74847-15	F	2.7	3.0	8.1	9.4	25.3			
MALES MEAN		2.5	2.9	8.6	11.8	31.5			
FEMALES MEAN		2.4	3.1	8.8	11.6	27.1			
74848-01	M	3.4	2.8	10.3	12.8	28.5			
74848-02	M	3.4	2.5	10.2	13.9	35.5			
74848-03	M	2.7	2.2	10.0	14.9	30.8	24.1	19.6	74.5
74848-04	F	2.8	2.8	9.3	12.2	28.0	25.6	19.1	72.7
74848-05	F	3.1							
74848-06	F	3.3	2.2	9.6	13.1	28.5			
74848-07	F	2.3	1.7	7.9	11.6	21.5			
74848-08	F	3.0	2.2	9.5	13.3	24.4			
74848-09	F	1.3	1.3	6.7	9.7	14.0			
74848-10	F	3.1							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
-----									
74848-11	F	2.2							
MALES MEAN		3.2	2.5	10.2	13.9	31.6			
FEMALES MEAN		2.6	2.0	8.6	12.0	23.3			
74849-01	M	1.7	2.9	10.2	12.4	31.4	23.2	18.9	73.5
74849-02	M	1.9	3.6	10.7	11.7	33.8	24.1	21.7	79.6
74849-03	M	2.1	3.6	11.6	12.6	33.3	27.0	24.5	84.8
74849-04	M	2.1	3.3	9.5	10.3	32.7			
74849-05	F	2.1	3.1	9.0	10.3	31.0			
74849-06	F	2.3							
74849-07	F	1.7	2.7	9.9	9.3	24.0	19.4	14.6	58.0
74849-08	F	2.4							
74849-09	F	2.3							
74849-10	F	1.7	3.0	8.2	10.5	25.8	16.1	15.4	57.3
74849-11	F	2.0							
74849-12	F	1.5	3.2	10.9	13.0	31.5	19.0	13.0	63.5
74849-13	F	1.7							
74849-14	F	1.7							
MALES MEAN		2.0	3.4	10.5	11.8	32.8			
FEMALES MEAN		1.9	3.0	9.5	10.8	28.1			
74850-01	M	2.6							
74850-02	M	2.4							
74850-03	M	3.2	2.4	8.8	10.9	33.3			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74850-04	M	2.3	1.6	9.7	12.3	29.0			
74850-05	M	2.8	2.5	8.3	12.0	31.1	21.2	19.8	72.1
74850-06	M	2.4	2.8	10.0	11.4	29.5			
74850-07	M	2.4							
74850-08	F	2.9							
74850-09	F	2.0							
74850-10	F	1.6							
74850-11	F	1.4	1.7	6.2	8.6	21.4	14.4	16.7	52.5
74850-12	F	2.5	2.4	9.2	10.6	26.7			
74850-13	F	2.8							
74850-14	F	3.1	2.5	9.1	7.3	34.3	13.5	14.0	61.8
74850-15	F	2.5							
74850-16	F	1.1	2.0	9.3	9.9	27.7			
MALES MEAN		2.6	2.3	9.2	11.7	30.7			
FEMALES MEAN		2.2	2.2	8.5	9.1	27.5			
74855-01	M	2.3							
74855-02	M	1.5	2.9	9.3	12.3	33.9			
74855-03	M	1.8							
74855-04	M	2.1	3.1	9.4	13.9	37.1			
74855-05	M	2.0							
74855-06	M	1.9							
74855-07	M	2.3							
74855-08	M	2.2	3.3	8.9	12.3	35.7	23.4	22.9	82.0
74855-09	M	1.5	2.9	9.0	11.2	35.4			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74855-10	F	2.0	3.3	8.9	12.7	29.1			
74855-11	F	2.4	2.8	8.4	11.2	32.9	24.7	18.9	76.5
74855-12	F	1.4	3.1	7.8	12.4	32.2			
74855-13	F	2.5							
74855-14	F	2.3							
74855-15	F	1.6	2.0	6.9	9.3	22.0			
74855-16	F	1.8							
MALES MEAN		2.0	3.1	9.2	12.4	35.5			
FEMALES MEAN		2.0	2.8	8.0	11.4	29.1			
74858-01	F	3.1							
74858-02	M	3.2	3.4	10.9	14.2	35.3	25.8	23.8	84.9
74858-03	M	2.3							
74858-04	M	2.4	3.9	12.2	16.9	37.2	28.1	26.4	91.7
74858-05	M	3.5							
74858-06	M	3.3	4.8	12.9	18.3	37.6			
74858-07	M	2.6	3.9	12.8	16.7	35.0	25.4	25.1	85.5
74858-08	F	2.6							
74858-09	F	1.6	3.2	10.6	12.5	28.1	18.6	11.7	58.4
74858-10	F	2.0							
74858-11	F	1.5							
74858-12	F	3.4							
74858-13	F	2.7	3.5	11.2	13.4	30.0	18.4	13.5	61.9
74858-14	F	2.9	3.9	12.2	15.4	33.1	18.3	19.4	70.8
74858-15	F	2.8							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 3:		1000 PPM							
74858-16	F	2.9							
74858-17	F	2.1	3.3	10.7	11.6	30.4			
MALES MEAN		2.9	4.0	12.2	16.5	36.3			
FEMALES MEAN		2.5	3.5	11.2	13.2	30.4			
74868-01	M	0.9							
74868-02	M	1.0	0.6	3.6	9.0	7.5	13.0	13.0	33.5
74868-03	M	0.8							
74868-04	M	0.1							
74868-05	M	0.3							
74868-06	M	1.0							
74868-07	M	0.8							
74868-08	M	0.6							
74868-09	M	-0.9							
74868-10	F	0.1							
74868-11	F	0.9							
74868-12	F	0.9							
74868-14	F	0.8							
74868-15	F	1.4							
74868-16	F	0.6	0.8	2.8	8.6	9.5			
74868-17	F	1.0	0.4	3.6	9.1	8.2	9.9	11.6	29.7
74868-18	F	-0.6							
74868-19	F	-0.3	0.3						
74868-20	F	0.8	0.7	3.9	9.9	13.4	13.1	12.4	38.9

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY  
 PUP NUMBER SEX 1- 4 4- 7 7-14 14-21 21-28 28-32 32-35 21-35  
 -----  
 DAMS FROM GROUP 3: 1000 PPM  
 -----

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
74868-21	F	-0.3							
MALES MEAN		0.5	0.6	3.6	9.0	7.5			
FEMALES MEAN		0.5	0.6	3.4	9.2	10.4			
74871-03	F	2.8	3.6	9.8	12.4	26.6			
74871-04	M	3.0	3.4	9.2	11.9	35.8			
74871-05	M	3.1	3.4	10.7	13.7	36.1			
74871-06	M	2.7	3.4	9.4	10.4	32.9	25.0	21.9	79.8
74871-07	F	3.1							
74871-08	F	2.9							
74871-09	F	2.5	3.4	8.0	10.8	27.9	23.0	16.9	67.8
74871-10	F	3.0	3.4	9.4	13.4	28.8			
74871-11	F	3.0							
74871-12	F	3.1	3.1	9.4	15.8	32.2			
74871-13	F	2.9							
74871-14	F	2.7	3.5	8.1	11.3	26.9			
MALES MEAN		2.9	3.4	9.8	12.0	34.9			
FEMALES MEAN		2.9	3.4	8.9	12.7	28.5			
MALES MEAN		2.6	2.7	9.5	12.0	30.7	21.3	19.0	71.4
SD		0.77	0.82	1.94	1.75	6.12	7.11	4.12	14.05
N		27	27	27	27	27	53	51	51
FEMALES MEAN		2.5	2.6	9.2	11.6	27.4	19.3	16.3	63.3
SD		0.75	0.78	1.89	1.69	4.62	3.95	4.40	10.48
N		27	27	27	27	27	55	53	53

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74747-01	M	3.2	4.1	13.1	16.8	33.3			
74747-02	M	2.7							
74747-03	M	2.9	4.4	13.3	17.4	34.9	30.9	25.1	90.9
74747-04	M	1.7	3.0	8.8	14.7	28.6	23.7	21.7	74.0
74747-05	M	1.9							
74747-06	M	1.5	4.7	13.2	17.0	34.7			
74747-07	M	1.8							
74747-08	M	2.1							
74747-09	F	2.7	3.8	13.0	16.2	28.8			
74747-10	F	2.1							
74747-11	F	2.1							
74747-12	F	2.6							
74747-13	F	2.0	3.9	10.7	14.5	29.4			
74747-14	F	2.1	3.4	12.5	16.6	28.9			
74747-15	F	1.8							
74747-16	F	2.2							
74747-17	F	2.5	4.3	12.8	14.3	32.4	25.2	22.0	79.6
74747-18	F	1.8							
74747-19	F	2.0							
74747-20	F	2.5							
MALES MEAN		2.2	4.1	12.1	16.5	32.9			
FEMALES MEAN		2.2	3.9	12.3	15.4	29.9			
74751-01	M	2.1	4.2	11.6	16.0	38.8			
74751-02	M	2.8	4.2	11.9	10.7	36.6	19.0	23.5	79.1

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74751-03	M	1.7							
74751-04	M	1.6	3.1	11.0	13.0	31.3	25.6	20.5	77.4
74751-05	M	2.4	4.0	11.0	14.9	34.8	24.8	25.5	85.1
74751-06	M	0.6							
74751-07	M	0.9							
74751-08	M	-0.9							
74751-09	M	1.7							
74751-10	F	1.2	3.0	10.0	11.5	30.5	22.3	18.3	71.1
74751-11	F	1.7							
74751-12	F	2.5	4.0	10.9	11.7	30.3	23.5	14.9	68.7
74751-13	F	0.8	3.6	10.5	12.1	32.2	22.1	20.5	74.8
74751-14	F	2.0	3.8	11.3	14.6	31.9			
MALES MEAN		1.4	3.9	11.4	13.7	35.4			
FEMALES MEAN		1.6	3.6	10.7	12.5	31.2			
-----									
74754-01	M	2.7							
74754-02	M	3.5							
74754-03	M	3.2							
74754-04	M	2.7							
74754-05	M	3.0							
74754-06	M	2.7							
74754-07	M	2.9	4.0	11.2	16.7	37.2	20.7	18.9	76.8
74754-08	M	3.1	3.8	9.5	16.0	30.1	19.6	12.6	62.3
74754-09	M	2.9	3.7	10.6	16.6	32.9	21.3	24.4	78.6
74754-10	M	2.8	3.3	11.5	15.4	32.4			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74754-11	M	2.5							
74754-12	F	3.8	4.0	9.9	15.3	31.6	17.8	16.5	65.9
74754-13	F	2.7	3.2	10.1	15.0	29.6	15.1	15.0	59.7
74754-14	F	3.4							
74754-15	F	2.7	3.8	8.5	13.2	26.1	14.4	14.7	55.2
74754-16	F	2.4	3.5	9.4	14.5	28.9			
MALES MEAN		2.9	3.7	10.7	16.2	33.2			
FEMALES MEAN		3.0	3.6	9.5	14.5	29.1			
-----									
74755-01	F	3.3	4.2	11.0	13.3	28.0	20.5	17.2	65.7
74755-02	M	4.1	4.9	12.3	19.5	39.4	32.8	20.7	92.9
74755-03	M	4.2	4.4	11.2	16.5	30.7	25.8	20.5	77.0
74755-04	M	3.8	5.1	12.6	15.9	35.2			
74755-05	M	4.2	4.6	13.2	17.1	36.5	29.9	22.7	89.1
74755-06	M	3.3							
74755-07	M	4.2							
74755-08	M	4.3							
74755-09	F	3.6	4.0	11.3	12.8	30.3	21.5	17.5	69.3
74755-11	F	3.4	4.5	12.2	18.3	35.0	23.9	14.1	73.0
74755-12	F	3.5	5.0	11.5	16.1	31.4			
MALES MEAN		4.0	4.8	12.3	17.3	35.5			
FEMALES MEAN		3.5	4.4	11.5	15.1	31.2			
-----									
74768-01	M	2.2							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74768-02	M	4.4	3.4	10.2	9.9	35.1	29.5	24.7	89.3
74768-03	M	0.7							
74768-04	M	3.9	2.4	10.0	10.3	33.8			
74768-05	M	4.0							
74768-06	M	3.5	1.2	10.2	8.6	34.0			
74768-07	M	3.9	3.8	10.1	8.9	36.9			
74768-08	M	3.2							
74768-09	F	3.1	3.2	9.6	8.6	33.7			
74768-10	F	3.5							
74768-11	F	4.4	2.4	9.9	11.4	33.2	20.4	22.0	75.6
74768-12	F	2.3	2.5	9.2	8.4	25.9			
74768-13	F	4.1							
74768-14	F	2.0	2.9	9.1	10.8	26.1			
MALES MEAN		3.2	2.7	10.1	9.4	35.0			
FEMALES MEAN		3.2	2.8	9.5	9.8	29.7			
74769-02	M	2.3	1.1	0.4					
74769-04	M	1.7	0.9						
74769-06	M	1.0	1.2	3.9	12.3	13.9			
74769-07	M	2.0	1.0	2.8	10.4	15.0	15.9	14.7	45.6
74769-08	F	2.6	1.2	3.7	12.7	18.8	16.1	15.2	50.1
74769-09	F	0.9	0.7	2.6	11.1	14.7			
74769-10	F	2.5							
74769-11	F	2.0							
74769-12	F	1.7	1.1	3.4	13.4	16.8			

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=(LITTER AS EXPERIMENTAL UNIT)====									
POSTNATAL DAY									
PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74769-13	F	2.2	1.8	4.6	14.6	19.3			
74769-15	F	0.7							
74769-17	F	1.5							
MALES MEAN		1.8	1.1	2.4	11.4	14.5			
FEMALES MEAN		1.8	1.2	3.6	13.0	17.4			
74770-01	M	2.6							
74770-02	M	3.2	4.3	11.2	17.9	37.5	27.3	23.7	88.5
74770-03	M	2.7	4.2	14.1	19.1	38.2	28.3	27.4	93.9
74770-04	M	2.7							
74770-05	M	3.1	5.0	12.8	18.5	39.9			
74770-06	M	2.7	4.4	12.3	15.5	36.7	31.8	35.0	103.5
74770-07	M	3.1							
74770-08	M	3.0							
74770-09	F	2.8							
74770-10	F	2.1	3.7	11.4	16.6	32.1	27.8	21.9	81.8
74770-11	F	2.1	3.1	11.0	13.2	29.6	25.2	15.5	70.3
74770-12	F	3.2	4.0	12.9	16.7	32.4			
74770-13	F	2.4	3.4	12.4	13.3	25.4	19.5	15.8	60.7
74770-14	F	3.0							
MALES MEAN		2.9	4.5	12.6	17.8	38.1			
FEMALES MEAN		2.6	3.6	11.9	15.0	29.9			
74786-02	M	1.6							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74786-03	M	2.5							
74786-04	M	2.2	4.0	11.7	16.2	37.1	26.8	17.8	81.7
74786-05	M	2.5	3.8	11.6	17.0	38.1	32.2	24.1	94.4
74786-06	M	2.8	4.4	11.4	12.9	35.6			
74786-07	M	2.7	3.8	11.3	12.3	35.4	31.3	25.2	91.9
74786-08	M	2.9							
74786-09	M	2.3							
74786-10	F	2.5	4.7	11.5	14.9	35.6	27.1	19.3	82.0
74786-11	F	2.2	3.9	11.6	12.9	32.1	24.2	15.4	71.7
74786-12	F	2.5	3.9	10.6	11.7	31.3			
74786-13	F	2.8							
74786-14	F	2.6	3.9	12.0	15.4	31.9	20.0	16.8	68.7
74786-15	F	2.6							
MALES MEAN		2.4	4.0	11.5	14.6	36.6			
FEMALES MEAN		2.5	4.1	11.4	13.7	32.7			
74787-01	M	1.8	2.2	8.6	11.1	27.4			
74787-02	M	2.5							
74787-03	M	2.2	2.7	10.5	11.9	33.1			
74787-04	M	1.9	2.8	9.4	10.9	31.3			
74787-05	M	1.7							
74787-06	M	1.9	1.7	7.9	9.9	26.5	13.9	18.9	59.3
74787-07	M	1.4							
74787-08	F	1.8	2.9	10.0	10.8	29.6			
74787-09	F	2.1							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74787-10	F	1.9	2.5	10.0	10.6	28.5	20.7	12.5	61.7
74787-11	F	1.8							
74787-12	F	1.6							
74787-13	F	2.2	2.0	9.1	10.0	30.7			
74787-14	F	1.7							
74787-15	F	2.3	2.3	10.4	11.6	28.3			
MALES MEAN		1.9	2.4	9.1	11.0	29.6			
FEMALES MEAN		1.9	2.4	9.9	10.8	29.3			
-----									
74792-01	M	2.2	2.1	8.1	9.7	27.2			
74792-02	M	2.5							
74792-03	M	3.3	3.0	11.8	16.9	32.1	24.8	26.0	82.9
74792-04	M	2.5							
74792-05	M	2.7							
74792-06	M	2.0	2.6	10.1	13.0	35.0			
74792-07	M	2.6	3.7	11.1	14.4	36.1			
74792-08	M	1.7							
74792-09	F	2.5	2.5	10.8	14.8	32.3			
74792-10	F	1.8	3.0	8.4	14.4	28.1			
74792-11	F	2.3	3.0	9.5	16.2	28.4	20.3	23.0	71.7
74792-12	F	2.1	2.3	8.4	8.5	30.5	13.6	18.2	62.3
74792-13	F	2.5							
74792-14	F	2.5							
74792-15	F	2.9							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
-----									
74792-16	F	1.1							
MALES MEAN		2.4	2.9	10.3	13.5	32.6			
FEMALES MEAN		2.2	2.7	9.3	13.5	29.8			
74803-03	M	1.7	-0.1	-0.2					
74803-09	F	1.1	0.2	-0.1					
74803-11	F	1.6	0.2	0.3					
74803-14	F	1.7	-0.1						
MALES MEAN		1.7	-0.1	-0.2					
FEMALES MEAN		1.5	0.1	0.1					
74807-01	M	0.5	1.3	5.8	7.1	19.0			
74807-02	M	2.6							
74807-03	M	2.3							
74807-04	M	2.6	3.2	8.5	9.6	29.3			
74807-05	M	1.1	2.1	4.3	6.3	14.9	14.8	10.0	39.7
74807-06	M	2.0	2.1	7.6	8.1	23.8			
74807-08	F	2.3	2.6	9.1	9.2	27.8	20.5	17.0	65.3
74807-09	F	1.7							
74807-10	F	2.6							
74807-11	F	2.8	2.9	9.2	10.4	27.2			
74807-12	F	2.0	2.3	7.6	8.1	24.0			
74807-13	F	2.9	2.1	9.7	8.5	27.5			

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74807-14	F	2.1							
MALES MEAN		1.9	2.2	6.6	7.8	21.8			
FEMALES MEAN		2.3	2.5	8.9	9.1	26.6			
74811-01	M	2.6	3.5	10.3	13.4	31.2	28.6	27.6	87.4
74811-02	M	2.9							
74811-03	M	3.3							
74811-04	M	3.0							
74811-05	M	3.2	4.1	10.1	14.6	39.7			
74811-06	M	3.2	3.5	11.1	15.0	40.8			
74811-07	M	3.5	3.6	9.2	14.2	33.9			
74811-08	M	3.4							
74811-09	M	2.9							
74811-10	M	3.1							
74811-11	F	3.8							
74811-12	F	2.9	3.7	9.0	11.4	29.6			
74811-13	F	3.0	4.1	10.1	12.9	32.4	19.9	22.0	74.3
74811-14	F	3.1	4.6	9.7	15.8	33.8			
74811-15	F	2.9	3.9	8.8	11.1	26.0			
MALES MEAN		3.1	3.7	10.2	14.3	36.4			
FEMALES MEAN		3.1	4.1	9.4	12.8	30.5			
74813-01	M	2.9							
74813-02	M	2.1							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74813-03	M	2.2							
74813-04	M	1.4	2.7	7.9	10.3	29.8			
74813-05	M	2.4							
74813-06	M	1.8							
74813-07	M	2.3	3.4	9.1	11.2	30.9	21.3	19.1	71.3
74813-08	M	2.1	3.1	8.3	9.5	32.1	22.1	21.9	76.1
74813-09	M	1.4	3.0	7.8	9.5	29.9	19.8	13.3	63.0
74813-10	F	2.6							
74813-11	F	2.2	3.6	9.5	10.6	30.2	18.1	12.7	61.0
74813-12	F	2.0	3.4	9.2	10.2	27.7	20.3	20.6	68.6
74813-13	F	1.8	2.9	10.6	6.1	27.6			
74813-14	F	2.2	3.3	9.5	10.9	27.7	16.9	14.1	58.7
MALES MEAN		2.1	3.1	8.3	10.1	30.7			
FEMALES MEAN		2.2	3.3	9.7	9.5	28.3			
74817-01	M	3.1							
74817-02	M	2.6	2.7	10.1	10.3	27.9			
74817-03	M	2.9							
74817-04	M	2.8	2.9	11.4	12.0	30.1	26.7	23.2	80.0
74817-05	M	2.8	3.2	11.3	12.5	30.8	25.3	21.6	77.7
74817-06	M	3.1	2.9	11.5	12.8	29.8	28.1	21.2	79.1
74817-07	F	2.7							
74817-08	F	2.7	2.6	10.9	11.9	27.5			
74817-09	F	2.5							
74817-10	F	2.9							

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=(LITTER AS EXPERIMENTAL UNIT)====

PUP NUMBER	SEX	POSTNATAL DAY							
		1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74817-11	F	2.5	2.6	11.4	11.3	25.8	17.2	15.3	58.3
74817-12	F	2.0							
74817-13	F	2.9	3.1	11.1	12.5	28.4	26.4	16.7	71.5
74817-14	F	2.3	3.1	10.2	10.5	25.7	22.1	15.3	63.1
MALES MEAN		2.9	2.9	11.1	11.9	29.7			
FEMALES MEAN		2.6	2.9	10.9	11.6	26.9			
74822-04	M	2.7	3.7	9.9	12.9	32.4	23.8	16.5	72.7
74822-05	F	2.8							
74822-06	F	3.4	3.1	7.8	14.8	34.1	22.5	17.3	73.9
74822-07	F	3.7							
74822-08	F	3.1	5.1	9.3	15.7	32.7	27.7	22.9	83.3
74822-09	F	2.4							
74822-10	F	3.0							
74822-11	F	3.5	4.4	11.0	15.6	31.5	20.5	14.9	66.9
74822-12	F	3.5							
74822-13	F	3.3	4.2	10.2	12.7	33.6			
74822-14	M	3.0	4.0	10.4	16.3	37.6	33.2	26.2	97.0
74822-15	M	3.6	4.6	10.5	15.4	36.7	28.6	19.5	84.8
74822-16	M	3.2	4.3	9.6	14.5	32.2			
MALES MEAN		3.1	4.2	10.1	14.8	34.7			
FEMALES MEAN		3.2	4.2	9.6	14.7	33.0			
74827-02	M	1.9	1.8	8.5	11.6	28.9	21.2	14.2	64.3

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=(LITTER AS EXPERIMENTAL UNIT)====

PUP NUMBER	SEX	POSTNATAL DAY							
		1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74827-03	M	2.2	1.5	7.8	10.9	28.4	20.0	19.9	68.3
74827-04	M	1.6							
74827-05	M	2.1							
74827-06	M	1.7	1.9	8.6	12.9	31.0			
74827-07	M	1.3	1.6	8.6	13.9	28.7	24.6	20.3	73.6
74827-08	F	2.3							
74827-09	F	2.1							
74827-10	F	1.2	0.6	5.3	8.8	19.7			
74827-11	F	1.5	1.6	7.8	10.1	24.0	18.1	12.7	54.8
74827-12	F	1.2							
74827-13	F	1.4							
74827-14	F	1.2	1.1	7.0	12.4	23.3	18.8	14.4	56.5
74827-15	F	1.9	1.6	9.3	11.8	29.5	20.0	15.5	65.0
74827-16	F	1.7							
MALES MEAN		1.8	1.7	8.4	12.3	29.3			
FEMALES MEAN		1.6	1.2	7.4	10.8	24.1			
74832-02	M	2.8							
74832-03	M	2.2	3.3	11.1	11.3	31.3	28.1	23.1	82.5
74832-04	M	2.4							
74832-05	M	3.0	2.8	9.3	11.6	30.7			
74832-06	F	2.1	3.1	10.1	13.3	25.9			
74832-07	F	2.8	2.9	9.8	11.5	26.6	21.0	16.0	63.6
74832-08	M	2.9							
74832-09	M	2.6	3.0	10.1	10.3	30.5			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74832-10	M	2.8							
74832-11	M	2.6	3.0	11.2	12.3	30.0			
74832-12	M	2.1							
74832-13	F	1.9							
74832-14	F	2.7							
74832-15	F	2.9	3.6	11.2	13.8	27.8			
74832-16	F	1.5	3.2	10.8	13.7	23.6			
MALES MEAN		2.6	3.0	10.4	11.4	30.6			
FEMALES MEAN		2.3	3.2	10.5	13.1	26.0			
-----									
74833-01	M	3.1							
74833-02	M	2.7	4.0	10.0	14.3	35.3	26.7	20.3	82.3
74833-03	M	3.1	4.1	9.2	17.1	33.1	26.8	22.5	82.4
74833-04	M	1.9							
74833-05	M	2.9							
74833-06	M	2.7							
74833-07	M	2.7	3.8	10.6	14.1	34.0	23.8	19.4	77.2
74833-08	M	2.2	4.0	9.1	15.3	35.0			
74833-09	F	2.5							
74833-10	F	3.1	4.1	9.5	16.7	31.7	22.1	13.3	67.1
74833-11	F	3.9	4.6	10.9	17.4	36.0	28.8	14.7	79.5
74833-12	F	2.6	3.9	9.5	14.2	33.5			
74833-13	F	3.2							
74833-14	F	1.9							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74833-15	F	2.9	4.1	9.8	14.5	28.6	19.4	12.6	60.6
MALES MEAN		2.7	4.0	9.7	15.2	34.4			
FEMALES MEAN		2.9	4.2	9.9	15.7	32.5			
74836-02	M	2.6	3.1	11.4	10.7	38.4			
74836-03	M	3.4							
74836-04	M	2.0							
74836-05	M	3.4							
74836-06	M	3.0	3.1	11.9	13.7	37.5			
74836-07	M	3.0	3.3	11.9	13.2	39.1			
74836-08	M	2.4	2.7	10.9	10.7	34.4	26.6	27.2	88.2
74836-09	F	2.8							
74836-10	F	2.5							
74836-11	F	3.1	3.2	12.6	12.3	31.6	21.0	21.9	74.5
74836-12	F	2.9	3.0	11.1	11.1	33.3	26.2	23.0	82.5
74836-13	F	2.6	3.0	12.0	10.9	28.0			
74836-14	F	2.7	2.4	11.0	11.4	30.5			
74836-15	F	2.5							
MALES MEAN		2.8	3.1	11.5	12.1	37.4			
FEMALES MEAN		2.7	2.9	11.7	11.4	30.9			
74853-01	M	2.5							
74853-02	M	2.5	2.2	11.9	11.5	32.3			
74853-03	M	2.6							

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=(LITTER AS EXPERIMENTAL UNIT)====

POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74853-05	M	2.7							
74853-06	M	1.9	2.6	10.7	10.5	28.3	21.5	21.5	71.3
74853-07	M	1.8							
74853-08	M	2.8	2.6	10.5	10.2	29.9			
74853-09	M	2.5	3.0	11.2	14.3	29.5			
74853-10	F	2.2							
74853-11	F	1.7	2.5	9.2	9.5	26.7	22.2	20.1	69.0
74853-12	F	1.6	2.2	11.4	13.3	27.6	26.3	22.1	76.0
74853-14	F	2.8	2.9	11.4	12.0	29.3			
74853-15	F	2.3	2.3	9.6	12.5	24.0			
74853-16	F	1.9							
74853-17	F	2.6							
MALES MEAN		2.4	2.6	11.1	11.6	30.0			
FEMALES MEAN		2.2	2.5	10.4	11.8	26.9			
-----									
74857-01	M	4.0	2.7	12.7	13.6	32.1			
74857-02	M	3.6							
74857-03	M	3.0	3.0	11.6	11.1	25.0			
74857-04	M	3.6							
74857-06	M	3.5							
74857-07	M	2.9							
74857-08	M	3.4	3.5	10.9	11.1	31.6			
74857-09	F	3.9	3.1	10.7	12.1	27.8	28.0	18.9	74.7
74857-10	M	2.7	3.1	12.3	12.3	29.4	30.4	27.3	87.1
74857-11	F	3.0	3.8	10.6	14.1	27.2			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74857-12	F	2.9							
74857-13	F	3.4							
74857-14	F	2.8	2.7	11.1	11.0	26.6	30.0	20.6	77.2
74857-15	F	2.3							
74857-16	F	3.4	3.0	11.4	10.5	25.2			
MALES MEAN		3.3	3.1	11.9	12.0	29.5			
FEMALES MEAN		3.1	3.2	11.0	11.9	26.7			
-----									
74860-01	M	2.6	3.8	9.4	11.5	38.1	27.3	23.2	88.6
74860-02	M	2.5	3.2	9.9	12.1	35.0	20.1	17.1	72.2
74860-03	M	2.7	3.2	10.4	11.9	35.4	29.0	26.6	91.0
74860-04	M	2.7							
74860-05	M	2.7	3.6	9.4	10.3	32.2			
74860-06	F	2.8	3.6	10.0	10.9	33.5	20.0	17.6	71.1
74860-07	F	2.6	3.5	10.2	12.2	34.1			
74860-08	F	2.4	3.5	9.2	12.9	33.3	25.7	23.2	82.2
74860-09	F	2.6	3.4	9.5	12.3	27.6	19.1	12.4	59.1
74860-10	F	2.3							
74860-11	F	2.0							
74860-12	F	2.2							
74860-13	F	2.4							
MALES MEAN		2.6	3.5	9.8	11.5	35.2			
FEMALES MEAN		2.4	3.5	9.7	12.1	32.1			

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
DAMS FROM GROUP 4:		2500 PPM							
74862-01	M	1.7	2.3	8.9	10.8	28.5			
74862-02	M	1.8	2.3	9.8	12.8	28.8	23.3	18.8	70.9
74862-03	M	1.7							
74862-04	M	1.9							
74862-05	M	2.1							
74862-06	M	1.5							
74862-07	M	1.6							
74862-08	M	1.5	1.8	10.0	11.7	27.4	9.3	20.0	56.7
74862-09	M	2.1	2.3	9.2	12.5	30.3	19.2	19.0	68.5
74862-10	F	2.1							
74862-11	F	1.6	1.8	8.9	12.4	26.7	14.6	12.6	53.9
74862-12	F	1.1	1.5	8.6	9.9	26.3	17.8	12.8	56.9
74862-13	F	1.8	2.1	10.1	11.9	27.8	21.7	21.1	70.6
74862-14	F	1.9	1.1	8.7	11.0	26.2			
MALES MEAN		1.8	2.2	9.5	12.0	28.8			
FEMALES MEAN		1.7	1.6	9.1	11.3	26.8			
74866-01	M	1.1	2.3	10.5	11.0	30.2	22.7	20.0	72.9
74866-02	M	2.8							
74866-03	M	3.5	3.0	11.4	12.7	35.3			
74866-04	M	3.7	3.7	11.1	11.6	33.3			
74866-05	M	3.1							
74866-06	M	3.2							
74866-07	M	2.9							
74866-08	M	3.7							

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 =(LITTER AS EXPERIMENTAL UNIT)====  
 POSTNATAL DAY

PUP NUMBER	SEX	1- 4	4- 7	7-14	14-21	21-28	28-32	32-35	21-35
-----									
DAMS FROM GROUP 4:		2500 PPM							
-----									
74866-09	F	3.0	3.9	11.2	10.8	33.9			
74866-10	F	3.3	3.9	10.7	12.3	31.2			
74866-11	M	3.3	3.3	11.8	11.6	30.9			
74866-12	F	2.6							
74866-13	F	3.7							
74866-14	F	3.6	3.1	11.5	10.7	29.2			
74866-15	F	2.9							
74866-16	F	3.0	3.5	12.0	12.6	27.1	27.2	18.3	72.6
MALES MEAN		3.0	3.1	11.2	11.7	32.4			
FEMALES MEAN		3.2	3.6	11.4	11.6	30.4			
-----									
74870-02	M	4.0	3.5	11.9	10.7	39.3			
74870-03	F	3.0	3.7	11.8	10.7	39.1	30.4	22.7	92.2
74870-04	M	2.5	2.7	15.5	1.2	29.8			
74870-05	M	3.5							
74870-06	M	4.1	3.2	10.4	9.1	40.8	26.7	24.5	92.0
74870-07	M	4.7							
74870-08	M	3.6	3.3	11.7	10.9	37.1			
74870-09	M	3.2	3.2	11.6	9.1	35.8			
74870-10	M	3.6	3.0	11.6	10.3	37.6			
74870-11	F	3.7	2.7	9.4	7.3	26.5			
MALES MEAN		3.7	3.2	12.1	8.6	36.7			
FEMALES MEAN		3.4	3.2	10.6	9.0	32.8			
-----									
MALES MEAN		2.6	3.1	9.8	12.7	32.0	24.7	21.6	78.7
SD		0.65	1.08	2.93	2.60	5.17	5.14	4.46	12.65
N		26	26	26	25	25	50	50	50
-----									
FEMALES MEAN		2.5	3.0	9.6	12.4	29.0	21.7	17.4	68.8
SD		0.60	1.05	2.58	1.98	3.41	4.11	3.43	8.91
N		26	26	26	25	25	53	53	53

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 1

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74740	1	M	0	STOMACH	MILK NOT PRESENT		P
74757	1	M	0	STOMACH	MILK NOT PRESENT		P
	2	M	0	STOMACH	MILK NOT PRESENT		P
74773	1	M	0	STOMACH	MILK NOT PRESENT		P
74804	2	M	2		NO REMARKABLE OBSERVATIONS		
	12	F	26	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	14	F	4		NO REMARKABLE OBSERVATIONS		
	15	F	2		NO REMARKABLE OBSERVATIONS		
	16	F	3		NO REMARKABLE OBSERVATIONS		
74826	1	M	0	STOMACH	MILK NOT PRESENT		P
74841	1	M	0	STOMACH	MILK NOT PRESENT		P
74854	1	F	0	STOMACH	MILK NOT PRESENT		P
74864	16	F	2	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 2

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74746	7	M	3		NO REMARKABLE OBSERVATIONS		
	12	F	7	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE		P
	14	F	2		ABDOMINAL AND URINARY/REPRODUCTIVE		
	15	F	1	STOMACH	NO REMARKABLE OBSERVATIONS		
					MILK PRESENT		P
74753	1	F	0	STOMACH	MILK NOT PRESENT		P
	10	F	1	STOMACH	MILK PRESENT		P
74765	1	M	11		NO REMARKABLE OBSERVATIONS		
	2	F	12	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE		P
					ABDOMINAL AND URINARY/REPRODUCTIVE		
	3	F	12	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE		P
					ABDOMINAL AND URINARY/REPRODUCTIVE		
74782	1	M	20		NO REMARKABLE OBSERVATIONS		
	8	M	29	LUNGS	NOT FULLY COLLAPSED		P
					ALL LOBES		
	14	F	12	BRAIN	DISCOLORATION, DARK RED		P
74790	7	M	1	STOMACH	MILK PRESENT		P
	12	F	1	STOMACH	MILK PRESENT		P
	17	F	3		NO REMARKABLE OBSERVATIONS		
74798	5	M	5	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE		P
					CRANIAL, THORACIC, ABDOMINAL AND URINARY/REPRODUCTIVE		
74805	1	M	0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 3

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74805 (CONTINUED)							
2	M		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
3	M		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
4	M		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
5	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
6	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
7	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
8	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
9	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
10	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
11	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
12	F		0	GENERAL COMMENT	EUTHANIZED DUE TO DEATH OF DAM		P
				STOMACH	MILK PRESENT		P
74812	4	M	14	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE CRANIAL, THORACIC, ABDOMINAL AND URINARY/REPRODUCTIVE		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
FOUND DEAD PUPS

PAGE 4

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74835	8	F	11		NO REMARKABLE OBSERVATIONS		
74838	4	M	1	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE CRANIAL, THORACIC, ABDOMINAL AND URINARY/REPRODUCTIVE		P
74839	1	M	0	STOMACH	MILK NOT PRESENT		P
	14	F	1	STOMACH	MILK NOT PRESENT		P
74846	1	M	0	STOMACH	MILK NOT PRESENT		P
74856	11	F	3		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74738	1	M	0	STOMACH	MILK NOT PRESENT		P
74743	1	F	0	STOMACH	MILK NOT PRESENT		P
	7	F	3		NO REMARKABLE OBSERVATIONS		
74791	9	F	2		NO REMARKABLE OBSERVATIONS		
74799	8	M	1	GENERAL COMMENT	CANNIBALIZED		P
74801	1	M	0	STOMACH	MILK NOT PRESENT		P
	2	F	0	STOMACH	MILK NOT PRESENT		P
	3	F	0	STOMACH	MILK NOT PRESENT		P
	4	F	0	STOMACH	MILK NOT PRESENT		P
	5	F	0	STOMACH	MILK NOT PRESENT		P
	6	M	1	STOMACH	MILK PRESENT		P
74831	3	M	6		NO REMARKABLE OBSERVATIONS		
	13	F	1	STOMACH	MILK PRESENT		P
74834	1	F	0	STOMACH	MILK NOT PRESENT		P
74847	1	F	0	STOMACH	MILK NOT PRESENT		P
74868	1	M	5		NO REMARKABLE OBSERVATIONS		
	5	M	7		NO REMARKABLE OBSERVATIONS		
	19	F	10		NO REMARKABLE OBSERVATIONS		
74871	1	M	0	STOMACH	MILK NOT PRESENT		P
	2	F	0	STOMACH	MILK NOT PRESENT		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 6

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74747	21	F	1	STOMACH	MILK NOT PRESENT		P
74769	1	F	0	STOMACH	MILK NOT PRESENT		P
	5	M	1	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
74784	1	M	2		NO REMARKABLE OBSERVATIONS		
	2	M	2		NO REMARKABLE OBSERVATIONS		
	3	M	2		NO REMARKABLE OBSERVATIONS		
	4	F	2		NO REMARKABLE OBSERVATIONS		
	5	F	2		NO REMARKABLE OBSERVATIONS		
74786	1	U	0	GENERAL COMMENT	CANNIBALIZED		P
74803	1	M	1	STOMACH	MILK NOT PRESENT		P
	2	M	1	STOMACH	MILK NOT PRESENT		P
	3	M	15	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	4	M	2	GENERAL COMMENT	CANNIBALIZED		P
	6	M	1	STOMACH	MILK NOT PRESENT		P
	7	M	1	STOMACH	MILK PRESENT		P
	8	F	1	STOMACH	MILK PRESENT		P
	9	F	16		NO REMARKABLE OBSERVATIONS		
	10	F	2	GENERAL COMMENT	CANNIBALIZED		P
	11	F	16		NO REMARKABLE OBSERVATIONS		
	12	F	1	STOMACH	MILK PRESENT		P
	13	F	1	GENERAL COMMENT	CANNIBALIZED		P
	14	F	14	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL CAVITY		P
				GENERAL COMMENT	MECHANICAL TRAUMA		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 172 (F1 - FOUND DEAD PUPS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
FOUND DEAD PUPS

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PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74803 (CONTINUED)						
				BONE FRACTURE: PARIETAL BONE, RIGHT, WITH ASSOCIATED HEMMORAGE SURROUNDING THE BRAIN		
74822	1	M	0 STOMACH	MILK NOT PRESENT		P
	2	M	0 STOMACH	MILK NOT PRESENT		P
	3	F	0 STOMACH	MILK NOT PRESENT		P
74827	1	M	0 GENERAL COMMENT	CANNIBALIZED		P
74832	1	M	0 STOMACH	MILK NOT PRESENT		P
74836	1	M	0 STOMACH	MILK NOT PRESENT		P
74853	13	F	3	NO REMARKABLE OBSERVATIONS		
74857	5	M	2	NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74737	1	M	28		NO REMARKABLE OBSERVATIONS		
	5	M	28		NO REMARKABLE OBSERVATIONS		
	9	F	28		NO REMARKABLE OBSERVATIONS		
74740	3	M	28		NO REMARKABLE OBSERVATIONS		
	5	M	28		NO REMARKABLE OBSERVATIONS		
	11	F	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74757	6	M	28		NO REMARKABLE OBSERVATIONS		
	13	F	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74759	7	M	28		NO REMARKABLE OBSERVATIONS		
	10	F	28		NO REMARKABLE OBSERVATIONS		
	11	F	28		NO REMARKABLE OBSERVATIONS		
74764	3	M	28		NO REMARKABLE OBSERVATIONS		
	5	M	28		NO REMARKABLE OBSERVATIONS		
	12	F	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74767	6	M	28		NO REMARKABLE OBSERVATIONS		
	8	M	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74772	3	M	34		NO REMARKABLE OBSERVATIONS		
	10	F	34		NO REMARKABLE OBSERVATIONS		
	11	F	34		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

		PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74773		5	M	28		NO REMARKABLE	OBSERVATIONS	
		7	M	28		NO REMARKABLE	OBSERVATIONS	
		11	F	28		NO REMARKABLE	OBSERVATIONS	
74774		2	M	37		NO REMARKABLE	OBSERVATIONS	
		5	M	37		NO REMARKABLE	OBSERVATIONS	
		8	F	37		NO REMARKABLE	OBSERVATIONS	
		12	F	37		NO REMARKABLE	OBSERVATIONS	
74789		3	M	34		NO REMARKABLE	OBSERVATIONS	
		6	M	34		NO REMARKABLE	OBSERVATIONS	
		14	F	34		NO REMARKABLE	OBSERVATIONS	
74804		1	M	37		NO REMARKABLE	OBSERVATIONS	
		7	M	37		NO REMARKABLE	OBSERVATIONS	
74808		3	M	28		NO REMARKABLE	OBSERVATIONS	
		7	M	28		NO REMARKABLE	OBSERVATIONS	
		9	F	28		NO REMARKABLE	OBSERVATIONS	
74810		6	M	28		NO REMARKABLE	OBSERVATIONS	
		9	F	28		NO REMARKABLE	OBSERVATIONS	
		15	F	28		NO REMARKABLE	OBSERVATIONS	
74826		2	M	37		NO REMARKABLE	OBSERVATIONS	
		4	M	37		NO REMARKABLE	OBSERVATIONS	
		9	F	37		NO REMARKABLE	OBSERVATIONS	
74829		2	M	28		NO REMARKABLE	OBSERVATIONS	
		6	M	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED WEANLINGS

PAGE 3

				GROUP 1:	0 PPM	
				FINDING		GRADE
74829	(CONTINUED)					
	7	F	28	NO REMARKABLE	OBSERVATIONS	
	13	F	28	NO REMARKABLE	OBSERVATIONS	
74841	8	F	28	NO REMARKABLE	OBSERVATIONS	
	11	M	28	NO REMARKABLE	OBSERVATIONS	
	13	F	28	NO REMARKABLE	OBSERVATIONS	
74844	2	M	36	NO REMARKABLE	OBSERVATIONS	
	3	M	36	NO REMARKABLE	OBSERVATIONS	
74845	4	F	37	NO REMARKABLE	OBSERVATIONS	
	9	F	37	NO REMARKABLE	OBSERVATIONS	
	12	F	37	NO REMARKABLE	OBSERVATIONS	
74854	5	M	37	NO REMARKABLE	OBSERVATIONS	
	10	F	37	NO REMARKABLE	OBSERVATIONS	
	11	F	37	NO REMARKABLE	OBSERVATIONS	
74864	1	M	28	NO REMARKABLE	OBSERVATIONS	
	9	M	28	NO REMARKABLE	OBSERVATIONS	
	12	F	28	NO REMARKABLE	OBSERVATIONS	
	13	F	28	NO REMARKABLE	OBSERVATIONS	
74867	5	M	28	NO REMARKABLE	OBSERVATIONS	
	6	F	28	NO REMARKABLE	OBSERVATIONS	
	9	F	28	NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74742	1	M	28		NO REMARKABLE OBSERVATIONS		
	4	F	28		NO REMARKABLE OBSERVATIONS		
	7	M	28		NO REMARKABLE OBSERVATIONS		
	10	F	28		NO REMARKABLE OBSERVATIONS		
74746	1	M	28		NO REMARKABLE OBSERVATIONS		
	3	M	28		NO REMARKABLE OBSERVATIONS		
	11	F	28		NO REMARKABLE OBSERVATIONS		
74753	8	F	28		NO REMARKABLE OBSERVATIONS		
	9	F	28		NO REMARKABLE OBSERVATIONS		
	13	F	28		NO REMARKABLE OBSERVATIONS		
74761	4	M	37		NO REMARKABLE OBSERVATIONS		
	7	M	37		NO REMARKABLE OBSERVATIONS		
	16	F	37		NO REMARKABLE OBSERVATIONS		
74762	2	M	28		NO REMARKABLE OBSERVATIONS		
	3	M	28		NO REMARKABLE OBSERVATIONS		
	8	F	28		NO REMARKABLE OBSERVATIONS		
	9	F	28		NO REMARKABLE OBSERVATIONS		
74782	13	F	28		NO REMARKABLE OBSERVATIONS		
74785	5	M	28		NO REMARKABLE OBSERVATIONS		
	7	M	28		NO REMARKABLE OBSERVATIONS		
	10	F	28	LIVER	AREA(S), RAISED		P
					ONE, 4 MM IN DIAMETER, WHITE, MEDIAN LOBE		
	14	F	28		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED WEANLINGS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74790	1	M	37		NO REMARKABLE	OBSERVATIONS	
	11	F	37		NO REMARKABLE	OBSERVATIONS	
74796	2	M	28		NO REMARKABLE	OBSERVATIONS	
	5	M	28		NO REMARKABLE	OBSERVATIONS	
	12	F	28		NO REMARKABLE	OBSERVATIONS	
	14	F	28		NO REMARKABLE	OBSERVATIONS	
74797	1	M	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
	11	F	37		NO REMARKABLE	OBSERVATIONS	
74798	3	M	28		NO REMARKABLE	OBSERVATIONS	
	7	F	28		NO REMARKABLE	OBSERVATIONS	
74802	3	M	28		NO REMARKABLE	OBSERVATIONS	
	12	F	28		NO REMARKABLE	OBSERVATIONS	
	14	F	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PAGE 6

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74809	2	M	37		NO REMARKABLE	OBSERVATIONS	
	3	M	37		NO REMARKABLE	OBSERVATIONS	
	6	F	37		NO REMARKABLE	OBSERVATIONS	
	13	F	37		NO REMARKABLE	OBSERVATIONS	
74816	1	M	28		NO REMARKABLE	OBSERVATIONS	
	3	M	28		NO REMARKABLE	OBSERVATIONS	
	11	F	28		NO REMARKABLE	OBSERVATIONS	
	13	F	28		NO REMARKABLE	OBSERVATIONS	
74819	1	M	37		NO REMARKABLE	OBSERVATIONS	
	4	M	37		NO REMARKABLE	OBSERVATIONS	
	6	F	37		NO REMARKABLE	OBSERVATIONS	
	11	F	37		NO REMARKABLE	OBSERVATIONS	
74823	3	M	37		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74823 (CONTINUED)							
	5	M	37		NO REMARKABLE	OBSERVATIONS	
	9	F	37		NO REMARKABLE	OBSERVATIONS	
	11	F	37		NO REMARKABLE	OBSERVATIONS	
74824	7	M	37		NO REMARKABLE	OBSERVATIONS	
	9	F	37		NO REMARKABLE	OBSERVATIONS	
	14	F	37		NO REMARKABLE	OBSERVATIONS	
74835	1	M	28		NO REMARKABLE	OBSERVATIONS	
	2	M	28		NO REMARKABLE	OBSERVATIONS	
74838	8	M	28		NO REMARKABLE	OBSERVATIONS	
	9	M	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	
	12	F	28		NO REMARKABLE	OBSERVATIONS	
74839	7	M	28		NO REMARKABLE	OBSERVATIONS	
	9	M	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	
	17	F	28		NO REMARKABLE	OBSERVATIONS	
74846	2	M	28		NO REMARKABLE	OBSERVATIONS	
	4	M	28		NO REMARKABLE	OBSERVATIONS	
	8	F	28		NO REMARKABLE	OBSERVATIONS	
	9	F	28		NO REMARKABLE	OBSERVATIONS	
74856	1	M	28		NO REMARKABLE	OBSERVATIONS	
	2	M	28		NO REMARKABLE	OBSERVATIONS	
	8	F	28		NO REMARKABLE	OBSERVATIONS	
	13	F	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED WEANLINGS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74859	2	M	37		NO REMARKABLE	OBSERVATIONS	
	4	M	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
74861	3	M	37		NO REMARKABLE	OBSERVATIONS	
74863	1	M	37		NO REMARKABLE	OBSERVATIONS	
	6	F	37		NO REMARKABLE	OBSERVATIONS	
	9	F	37		NO REMARKABLE	OBSERVATIONS	
74869	1	M	28		NO REMARKABLE	OBSERVATIONS	
	5	F	28		NO REMARKABLE	OBSERVATIONS	
	7	F	28		NO REMARKABLE	OBSERVATIONS	
	9	F	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74738	3	M	37		NO REMARKABLE OBSERVATIONS		
	4	M	37		NO REMARKABLE OBSERVATIONS		
	11	F	37		NO REMARKABLE OBSERVATIONS		
74739	3	M	28	KIDNEY	DILATED PELVIS RIGHT		2
	6	M	28		NO REMARKABLE OBSERVATIONS		
	13	F	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74743	6	F	28		NO REMARKABLE OBSERVATIONS		
	10	F	28		NO REMARKABLE OBSERVATIONS		
	11	M	28		NO REMARKABLE OBSERVATIONS		
	12	M	28		NO REMARKABLE OBSERVATIONS		
74744	6	M	34		NO REMARKABLE OBSERVATIONS		
	11	M	34		NO REMARKABLE OBSERVATIONS		
	13	F	34		NO REMARKABLE OBSERVATIONS		
	14	F	34		NO REMARKABLE OBSERVATIONS		
74748	1	M	37		NO REMARKABLE OBSERVATIONS		
	9	F	37		NO REMARKABLE OBSERVATIONS		
	10	F	37		NO REMARKABLE OBSERVATIONS		
74752	2	M	28		NO REMARKABLE OBSERVATIONS		
	7	F	28		NO REMARKABLE OBSERVATIONS		
	11	F	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		
74766	5	M	37		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74766 (CONTINUED)							
	8	M	37		NO REMARKABLE	OBSERVATIONS	
	12	F	37		NO REMARKABLE	OBSERVATIONS	
	16	F	37		NO REMARKABLE	OBSERVATIONS	
74780	1	M	37		NO REMARKABLE	OBSERVATIONS	
	5	F	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
	12	F	37		NO REMARKABLE	OBSERVATIONS	
74791	4	M	37		NO REMARKABLE	OBSERVATIONS	
	8	F	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
74793	1	M	28		NO REMARKABLE	OBSERVATIONS	
	6	M	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	
	16	F	28		NO REMARKABLE	OBSERVATIONS	
74795	3	M	37		NO REMARKABLE	OBSERVATIONS	
	4	M	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
	13	F	37		NO REMARKABLE	OBSERVATIONS	
74799	2	M	37		NO REMARKABLE	OBSERVATIONS	
	6	M	37		NO REMARKABLE	OBSERVATIONS	
	10	F	37		NO REMARKABLE	OBSERVATIONS	
	11	F	37		NO REMARKABLE	OBSERVATIONS	
74801	8	M	28		NO REMARKABLE	OBSERVATIONS	
	9	M	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74801 (CONTINUED)							
	11	F	28		NO REMARKABLE	OBSERVATIONS	
	15	F	28		NO REMARKABLE	OBSERVATIONS	
74806	2	M	28		NO REMARKABLE	OBSERVATIONS	
	8	F	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	
74820	1	M	28		NO REMARKABLE	OBSERVATIONS	
	5	M	28		NO REMARKABLE	OBSERVATIONS	
	7	F	28		NO REMARKABLE	OBSERVATIONS	
	15	F	28		NO REMARKABLE	OBSERVATIONS	
74821	1	M	37		NO REMARKABLE	OBSERVATIONS	
	4	M	37		NO REMARKABLE	OBSERVATIONS	
	6	M	37		NO REMARKABLE	OBSERVATIONS	
74830	4	M	37		NO REMARKABLE	OBSERVATIONS	
	8	M	37		NO REMARKABLE	OBSERVATIONS	
	13	F	37		NO REMARKABLE	OBSERVATIONS	
	14	F	37		NO REMARKABLE	OBSERVATIONS	
74831	1	M	37		NO REMARKABLE	OBSERVATIONS	
	16	F	37		NO REMARKABLE	OBSERVATIONS	
	18	F	37		NO REMARKABLE	OBSERVATIONS	
74834	2	M	28		NO REMARKABLE	OBSERVATIONS	
	5	M	28		NO REMARKABLE	OBSERVATIONS	
	8	F	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

		PUP NO.	SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74847		5	M	28		NO REMARKABLE OBSERVATIONS		
		6	M	28		NO REMARKABLE OBSERVATIONS		
		13	F	28		NO REMARKABLE OBSERVATIONS		
		14	F	28		NO REMARKABLE OBSERVATIONS		
74848		1	M	28		NO REMARKABLE OBSERVATIONS		
		6	F	28		NO REMARKABLE OBSERVATIONS		
		7	F	28		NO REMARKABLE OBSERVATIONS		
		9	F	28		NO REMARKABLE OBSERVATIONS		
74849		1	M	37		NO REMARKABLE OBSERVATIONS		
		2	M	37		NO REMARKABLE OBSERVATIONS		
		10	F	37		NO REMARKABLE OBSERVATIONS		
		12	F	37	KIDNEY	DILATED PELVIS RIGHT		1
74850		3	M	28		NO REMARKABLE OBSERVATIONS		
		4	M	28		NO REMARKABLE OBSERVATIONS		
		16	F	28		NO REMARKABLE OBSERVATIONS		
74855		2	M	28		NO REMARKABLE OBSERVATIONS		
		9	M	28		NO REMARKABLE OBSERVATIONS		
		10	F	28		NO REMARKABLE OBSERVATIONS		
		12	F	28		NO REMARKABLE OBSERVATIONS		
74858		2	M	37		NO REMARKABLE OBSERVATIONS		
		7	M	37		NO REMARKABLE OBSERVATIONS		
		9	F	37		NO REMARKABLE OBSERVATIONS		
		13	F	37		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED WEANLINGS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74868	17	F	37		NO REMARKABLE	OBSERVATIONS	
74871	3	F	28		NO REMARKABLE	OBSERVATIONS	
	5	M	28		NO REMARKABLE	OBSERVATIONS	
	10	F	28		NO REMARKABLE	OBSERVATIONS	
	12	F	28		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

				GROUP 4: 2500 PPM		
	PUP NO.	SEX	LACT DAY	TISSUE	FINDING	GRADE
74747	1	M	28		NO REMARKABLE OBSERVATIONS	
	9	F	28		NO REMARKABLE OBSERVATIONS	
	14	F	28		NO REMARKABLE OBSERVATIONS	
74751	4	M	37		NO REMARKABLE OBSERVATIONS	
	10	F	37		NO REMARKABLE OBSERVATIONS	
	12	F	37		NO REMARKABLE OBSERVATIONS	
74754	7	M	37		NO REMARKABLE OBSERVATIONS	
	8	M	37		NO REMARKABLE OBSERVATIONS	
	12	F	37		NO REMARKABLE OBSERVATIONS	
	13	F	37		NO REMARKABLE OBSERVATIONS	
74755	2	M	37		NO REMARKABLE OBSERVATIONS	
	3	M	37		NO REMARKABLE OBSERVATIONS	
	9	F	37		NO REMARKABLE OBSERVATIONS	
	11	F	37		NO REMARKABLE OBSERVATIONS	
74768	4	M	28		NO REMARKABLE OBSERVATIONS	
	7	M	28		NO REMARKABLE OBSERVATIONS	
	9	F	28		NO REMARKABLE OBSERVATIONS	
	12	F	28		NO REMARKABLE OBSERVATIONS	
74769	9	F	28		NO REMARKABLE OBSERVATIONS	
	12	F	28		NO REMARKABLE OBSERVATIONS	
74770	2	M	37		NO REMARKABLE OBSERVATIONS	
	3	M	37		NO REMARKABLE OBSERVATIONS	
	13	F	37		NO REMARKABLE OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

		PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74786		4	M	37		NO REMARKABLE OBSERVATIONS		
		11	F	37		NO REMARKABLE OBSERVATIONS		
		14	F	37		NO REMARKABLE OBSERVATIONS		
74787		3	M	28		NO REMARKABLE OBSERVATIONS		
		4	M	28		NO REMARKABLE OBSERVATIONS		
		8	F	28		NO REMARKABLE OBSERVATIONS		
		13	F	28		NO REMARKABLE OBSERVATIONS		
74792		1	M	28		NO REMARKABLE OBSERVATIONS		
		7	M	28		NO REMARKABLE OBSERVATIONS		
		10	F	28		NO REMARKABLE OBSERVATIONS		
74807		1	M	28		NO REMARKABLE OBSERVATIONS		
		6	M	28		NO REMARKABLE OBSERVATIONS		
		12	F	28		NO REMARKABLE OBSERVATIONS		
		13	F	28		NO REMARKABLE OBSERVATIONS		
74811		6	M	28		NO REMARKABLE OBSERVATIONS		
		7	M	28		NO REMARKABLE OBSERVATIONS		
		12	F	28		NO REMARKABLE OBSERVATIONS		
		15	F	28		NO REMARKABLE OBSERVATIONS		
74813		7	M	37		NO REMARKABLE OBSERVATIONS		
		9	M	37		NO REMARKABLE OBSERVATIONS		
		11	F	37		NO REMARKABLE OBSERVATIONS		
		14	F	37	VARIATION	OVIDUCT- CYSTS ONE, 5 MM IN DIAMETER, LEFT		P
74817		5	M	37		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74817 (CONTINUED)							
	6	M	37		NO REMARKABLE OBSERVATIONS		
	11	F	37		NO REMARKABLE OBSERVATIONS		
	14	F	37		NO REMARKABLE OBSERVATIONS		
74822	4	M	37		NO REMARKABLE OBSERVATIONS		
	6	F	37		NO REMARKABLE OBSERVATIONS		
	11	F	37		NO REMARKABLE OBSERVATIONS		
74827	2	M	37		NO REMARKABLE OBSERVATIONS		
	7	M	37		NO REMARKABLE OBSERVATIONS		
	14	F	37		NO REMARKABLE OBSERVATIONS		
	15	F	37		NO REMARKABLE OBSERVATIONS		
74832	9	M	28		NO REMARKABLE OBSERVATIONS		
	11	M	28		NO REMARKABLE OBSERVATIONS		
	15	F	28		NO REMARKABLE OBSERVATIONS		
	16	F	28		NO REMARKABLE OBSERVATIONS		
74833	3	M	37		NO REMARKABLE OBSERVATIONS		
	7	M	37		NO REMARKABLE OBSERVATIONS		
	10	F	37		NO REMARKABLE OBSERVATIONS		
	15	F	37		NO REMARKABLE OBSERVATIONS		
74836	6	M	28		NO REMARKABLE OBSERVATIONS		
	7	M	28		NO REMARKABLE OBSERVATIONS		
	13	F	28		NO REMARKABLE OBSERVATIONS		
74853	2	M	28		NO REMARKABLE OBSERVATIONS		
	8	M	28		NO REMARKABLE OBSERVATIONS		
	14	F	28		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 173 (F1 - WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED WEANLINGS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74857	1	M	28		NO REMARKABLE OBSERVATIONS		
	3	M	28		NO REMARKABLE OBSERVATIONS		
	11	F	28		NO REMARKABLE OBSERVATIONS		
74860	1	M	37		NO REMARKABLE OBSERVATIONS		
	6	F	37		NO REMARKABLE OBSERVATIONS		
	9	F	37		NO REMARKABLE OBSERVATIONS		
74862	2	M	37		NO REMARKABLE OBSERVATIONS		
	9	M	37		NO REMARKABLE OBSERVATIONS		
	11	F	37		NO REMARKABLE OBSERVATIONS		
	12	F	37	GENERAL COMMENT	MECHANICAL TRAUMA FRONTAL AND PARIETAL, FRACTURED, BILATERAL		P
74866	3	M	28		NO REMARKABLE OBSERVATIONS		
	9	F	28		NO REMARKABLE OBSERVATIONS		
	10	F	28		NO REMARKABLE OBSERVATIONS		
	11	M	28		NO REMARKABLE OBSERVATIONS		
74870	2	M	28		NO REMARKABLE OBSERVATIONS		
	4	M	28		NO REMARKABLE OBSERVATIONS		
	9	M	28		NO REMARKABLE OBSERVATIONS		
	10	M	28		NO REMARKABLE OBSERVATIONS		

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GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

PPNRDv4.11  
 09/25/2002  
 R:10/04/2002

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 1

ANIMAL NO.74737-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4857 1.812 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3275 0.399 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3724 0.454 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 82. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 2

ANIMAL NO.74740-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5490 1.986 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3030 0.388 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4069 0.522 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 78. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 3

ANIMAL NO.74757-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5269 1.983 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3432 0.446 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3947 0.513 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 77. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 4

ANIMAL NO.74759-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5421 2.112 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3062 0.419 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3563 0.488 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 73. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74764-08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4837 2.120 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2667 0.381 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3320 0.474 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 6

ANIMAL NO.74767-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3568 2.224 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2421 0.397 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2464 0.404 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 61. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74772-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6363 2.153 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2864 0.377 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3730 0.491 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 76. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6219 2.002 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3503 0.432 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3965 0.490 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 81. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74774-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4917 2.406 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3025 0.488 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3102 0.500 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 62. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1804 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4377 1.997 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3197 0.444 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3248 0.451 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 72. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4189 2.252 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2782 0.442 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3004 0.477 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 63. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1806 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808-05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3841 2.232 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3505 0.565 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2329 0.376 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 62. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74810-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5329 2.358 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2863 0.440 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3995 0.615 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 65. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74826-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4676 1.957 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3013 0.402 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2835 0.378 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 75. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1809 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74829-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6427 2.190 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3359 0.448 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2969 0.396 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 75. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1810 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74840-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/07/02 DATE OF DEATH: 01/07/02 STUDY DAY: 33  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4758 1.491 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3685 0.372 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4395 0.444 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 99. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74841-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5380 2.024 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2626 0.346 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4236 0.557 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 76. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1812 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74844-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/07/02 DATE OF DEATH: 01/07/02 STUDY DAY: 33  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2391 1.770 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2853 0.408 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3077 0.440 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74845-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4170 1.794 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3126 0.396 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2676 0.339 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 79. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74854-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4275 2.039 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3653 0.522 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2980 0.426 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74864-10 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2922 3.692 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1392 0.398 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1405 0.401 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 35. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74867-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6336 2.208 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3758 0.508 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3860 0.522 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74742-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3292 2.508 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2351 0.444 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2339 0.441 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 53. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74746-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2103 3.362 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1705 0.474 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1228 0.341 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 36. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74753-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4636 2.568 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2746 0.482 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2384 0.418 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 57. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74761-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1208 4.151 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1007 0.373 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0760 0.281 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 27. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74762-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3516 3.297 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1700 0.415 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1976 0.482 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74782-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1321 3.431 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1726 0.523 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1165 0.353 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74785-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3578 2.226 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2341 0.384 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3034 0.497 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 61. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5026 2.031 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3938 0.532 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3904 0.528 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74796-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4542 2.077 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3489 0.498 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3510 0.501 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74797-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3618 2.270 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3398 0.566 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2360 0.393 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 60. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3157 3.133 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1879 0.447 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1644 0.391 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74802-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5784 1.998 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3566 0.451 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.5239 0.663 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 79. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74809-10 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4415 2.030 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2838 0.400 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3287 0.463 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 71. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74816-07 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5401 1.901 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3363 0.415 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3628 0.448 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 81. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74819-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6450 2.419 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2868 0.422 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2237 0.329 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 68. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74823-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4568 2.207 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2851 0.432 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2711 0.411 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 66. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74824-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2903 3.226 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1761 0.440 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1669 0.417 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74835-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4427 2.004 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3121 0.433 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3793 0.527 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 72. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74838-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5202 2.111 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2623 0.364 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2553 0.355 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 72. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74839-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS FINDINGS			
BRAIN	1.5063	2.282	CHANGES OBSERVED	ADRENAL GLANDS	SPINAL CORD	BRAIN	INTESTINE
SPLEEN	0.3163	0.479		EPIDIDYMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.2856	0.433		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	66.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74846-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6428 1.956 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3373 0.402 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2786 0.332 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 84. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74856-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4698 2.227 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3593 0.544 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2725 0.413 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 66. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5444 2.087 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2671 0.361 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3118 0.421 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74861-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5137 2.441 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2860 0.461 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2485 0.401 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 62. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74863-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3145 1.776 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2665 0.360 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3002 0.406 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74869-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4720 2.230 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2340 0.355 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3230 0.489 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 66. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738-08 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3587 2.470 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3199 0.582 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1805 0.328 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 55. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74739-01 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4350 1.913 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3165 0.422 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3596 0.479 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 75. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74743-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5130 1.891 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3008 0.376 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4052 0.506 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 80. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74744-07 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4667 2.189 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3047 0.455 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2377 0.355 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 67. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74748-08 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3402 3.350 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1657 0.414 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1194 0.299 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74752-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4879 2.362 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2760 0.438 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3097 0.492 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 63. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74766-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3693 2.321 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2563 0.434 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2088 0.354 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 59. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74780-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6296 2.295 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2418 0.341 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3156 0.445 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 71. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74791-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.2978	2.545	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.2160	0.424		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.2410	0.473		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	51.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74793-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4477 2.632 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2807 0.510 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1850 0.336 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 55. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74795-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4078 1.902 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2862 0.387 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3736 0.505 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74799-01 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3832 2.515 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3099 0.563 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2487 0.452 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 55. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74801-07 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4225 2.586 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2658 0.483 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2683 0.488 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 55. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74806-07 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4851 2.517 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2488 0.422 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2395 0.406 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 59. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74820-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4064 2.306 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2891 0.474 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2762 0.453 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 61. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.0902	1.730	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.2714	0.431		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.2879	0.457		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	63.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74830-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4976 1.997 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2897 0.386 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3474 0.463 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 75. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74831-10 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4469 1.904 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2973 0.391 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3880 0.511 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 76. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74834-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5187 2.201 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2528 0.366 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3136 0.454 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 69. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74847-08 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.4636	2.481	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.2555	0.433		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.3291	0.558		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	59.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74848-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4922 2.044 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2878 0.394 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3558 0.487 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 73. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74849-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4411 2.183 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3051 0.462 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2586 0.392 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 66. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4920 2.368 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3031 0.481 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2842 0.451 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 63. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74855-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4570 2.024 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3672 0.510 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3092 0.429 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 72. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74858-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5975 1.879 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2815 0.331 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3226 0.380 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 85. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74871-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4412 2.030 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2345 0.330 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3482 0.490 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 71. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74747-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5256 1.956 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3534 0.453 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2842 0.364 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 78. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74751-01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.6213	2.002	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.3650	0.451		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.2778	0.343		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	81.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74754-10 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4390 1.999 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2679 0.372 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4331 0.602 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 72. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74755-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5311 1.890 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3268 0.403 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4011 0.495 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 81. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74768-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.4171	2.214	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.3255	0.509		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.3418	0.534		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	64.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74769-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3564 3.569 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2745 0.722 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1541 0.406 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6436 1.889 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3820 0.439 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3614 0.415 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 87. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74786-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4472 1.956 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3399 0.459 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4308 0.582 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 74. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74787-01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4253 2.501 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3349 0.588 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2298 0.403 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 57. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74792-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4512 2.073 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2826 0.404 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3516 0.502 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74807-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5057 2.510 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3065 0.511 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3003 0.501 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 60. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74811-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5988 2.024 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3291 0.417 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3326 0.421 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 79. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74813-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3696 2.361 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2889 0.498 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2305 0.397 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 58. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74817-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.6305 2.718 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3311 0.552 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2366 0.394 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 60. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74822-16 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5597 2.228 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3038 0.434 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2843 0.406 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 70. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74827-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4137 2.244 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2947 0.468 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3448 0.547 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 63. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74832-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4319 2.237 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2720 0.425 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2491 0.389 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 64. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74833-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4169 1.941 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2805 0.384 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3405 0.466 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 73. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5785 2.162 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2890 0.396 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3477 0.476 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 73. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853-09 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5337 2.255 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3794 0.558 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3018 0.444 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 68. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74857-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3933 2.080 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2818 0.421 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2716 0.405 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 67. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74860-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4327 2.239 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2554 0.399 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2850 0.445 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 64. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74862-01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4435 2.406 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3412 0.569 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2498 0.416 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 60. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74866-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5025 2.116 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2902 0.409 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.3152 0.444 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 71. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74870-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4485 1.984 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3786 0.519 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.4286 0.587 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 73. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74737-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4804 1.974 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2628 0.350 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2959 0.395 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 75. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74740-08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3462 1.771 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2621 0.345 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3491 0.459 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 76. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74757-12 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5066 2.283 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3096 0.469 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3570 0.541 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74759-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5012 2.114 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2930 0.413 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3800 0.535 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 71. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74764-16 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4801 2.243 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2576 0.390 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.4024 0.610 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74767-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3471 2.173 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2724 0.439 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2993 0.483 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 62. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74772-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4717 1.863 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2817 0.357 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3919 0.496 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 79. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773-16 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5012 2.421 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2761 0.445 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3079 0.497 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 62. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74774-07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3917 2.530 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2429 0.442 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1568 0.285 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 55. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5323 2.071 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2556 0.345 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3543 0.479 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 74. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804-09 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3834 2.427 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2432 0.427 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2433 0.427 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 57. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4279 2.131 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2309 0.345 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2929 0.437 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74810-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4873 2.220 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2615 0.390 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3777 0.564 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74826-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3987 2.027 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2533 0.367 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3388 0.491 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 69. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74829-15 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5921 2.341 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2618 0.385 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3614 0.531 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 68. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74841-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4837 2.120 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2305 0.329 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3778 0.540 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 70. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74844-06 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/07/02 DATE OF DEATH: 01/07/02 STUDY DAY: 33  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3770 2.459 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2450 0.438 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2567 0.458 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 56. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74845-05 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3761 1.885 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3095 0.424 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2946 0.404 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 73. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74854-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4097 2.073 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3329 0.490 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2650 0.390 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 68. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74864-17 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1851 3.823 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1028 0.332 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1234 0.398 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 31. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74867-14 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5251 2.346 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2954 0.454 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2937 0.452 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 65. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74742-15 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3202 2.491 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2334 0.440 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2516 0.475 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 53. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74746-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3333 3.604 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2689 0.727 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1595 0.431 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74753-14 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4276 2.505 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2486 0.436 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2518 0.442 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 57. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74761-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.0248 4.456 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0930 0.404 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0822 0.357 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 23. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74762-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3288 3.497 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1475 0.388 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1654 0.435 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74782-11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1219 4.315 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1546 0.595 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0946 0.364 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 26. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74785-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2792 2.369 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2617 0.485 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2519 0.466 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 54. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790-16 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5704 2.344 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3267 0.488 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3401 0.508 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74796-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2935 1.960 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3538 0.536 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3540 0.536 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74797-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3370 2.122 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2632 0.418 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2917 0.463 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 63. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798-09 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3310 2.893 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2287 0.497 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2167 0.471 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 46. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74802-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3972 2.451 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2518 0.442 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3106 0.545 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 57. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74809-04 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4505 1.960 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2938 0.397 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3967 0.536 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 74. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74816-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4114 2.046 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2616 0.379 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3413 0.495 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 69. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74819-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4185 2.325 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2594 0.425 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2055 0.337 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 61. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74823-07 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4272 2.099 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2628 0.386 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3082 0.453 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 68. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74824-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2630 3.007 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1788 0.426 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1805 0.430 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74835-14 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3776 1.968 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2770 0.396 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3702 0.529 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 70. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74838-14 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4225 1.949 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2612 0.358 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3105 0.425 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 73. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74839-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3628 2.621 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2320 0.446 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2316 0.445 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 52. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74846-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3524 1.960 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2874 0.417 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3041 0.441 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 69. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74856-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4472 2.297 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2453 0.389 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3672 0.583 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 63. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859-07 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3807 2.301 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2264 0.377 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3246 0.541 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 60. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74861-04 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2696 2.821 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1734 0.385 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1516 0.337 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 45. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74863-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4157 1.913 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2532 0.342 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3197 0.432 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 74. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74869-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5129 2.161 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3435 0.491 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3316 0.474 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 70. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2753 2.453 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2183 0.420 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1972 0.379 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 52. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74739-10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4793 1.946 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2981 0.392 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3479 0.458 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 76. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74743-05 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5110 2.255 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2539 0.379 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2816 0.420 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74744-15 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/09/02 DATE OF DEATH: 01/09/02 STUDY DAY: 35  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3950 2.491 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2167 0.387 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1895 0.338 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 56. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74748-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2714 2.890 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1834 0.417 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1279 0.291 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 44. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74752-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3818 2.159 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2539 0.397 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3097 0.484 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 64. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74766-10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4589 2.177 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2382 0.356 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3527 0.526 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74780-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4528 2.270 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2077 0.325 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2514 0.393 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 64. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74791-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3447 2.537 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2372 0.448 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2545 0.480 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 53. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74793-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3340 2.668 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2206 0.441 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1633 0.327 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 50. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1951 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74795-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4643 2.034 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2518 0.350 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3585 0.498 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 72. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74799-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3830 2.426 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2885 0.506 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2385 0.418 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 57. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1953 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74801-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4594 2.516 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3146 0.542 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2973 0.513 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 58. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74806-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4377 2.319 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2874 0.464 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3368 0.543 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 62. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1955 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74820-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4181 2.026 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3154 0.451 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3722 0.532 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 70. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1956 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821-08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4887 2.097 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2832 0.399 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3668 0.517 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 71. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74830-15 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4353 2.175 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2320 0.352 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3658 0.554 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1958 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74831-08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4378 2.146 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3078 0.459 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.4385 0.654 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 67. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1959 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74834-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4910 2.042 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2579 0.353 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2907 0.398 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 73. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1960 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74847-15 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3407 2.483 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2515 0.466 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2827 0.524 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 54. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1961 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74848-08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4302 2.384 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2151 0.359 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3852 0.642 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 60. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74849-05 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3922 2.210 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3091 0.491 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2755 0.437 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 63. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4218 2.451 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2348 0.405 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2081 0.359 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 58. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74855-15 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1886 2.584 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2201 0.478 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2164 0.470 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 46. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1965 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74858-17 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3693 2.140 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2701 0.422 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2832 0.443 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 64. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1966 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74868-16 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.0399 3.714 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1111 0.397 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1016 0.363 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 28. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 173

ANIMAL NO.74871-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3259 2.247 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2394 0.406 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3483 0.590 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 59. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1968 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 174

ANIMAL NO.74747-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5336 2.324 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3293 0.499 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2914 0.442 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1969 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74751-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5385 2.167 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2955 0.416 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3432 0.483 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 71. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1970 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74754-16 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3585 2.090 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2306 0.355 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3306 0.509 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 65. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74755-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4297 1.932 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2853 0.386 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2999 0.405 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 74. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74768-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4284 2.506 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2792 0.490 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2256 0.396 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 57. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1973 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74769-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3823 2.821 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2887 0.589 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2074 0.423 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 49. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4789 1.921 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2934 0.381 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3177 0.413 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 77. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74786-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3326 2.019 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2393 0.363 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2911 0.441 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 66. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1976 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74787-15 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3795 2.261 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3060 0.502 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2135 0.350 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 61. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74792-09 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3777 1.997 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2949 0.427 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2840 0.412 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 69. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1978 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74807-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4553 2.467 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2199 0.373 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2537 0.430 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 59. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1979 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74811-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5246 2.060 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2495 0.337 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2826 0.382 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 74. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1980 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74813-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4310 2.602 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1939 0.353 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1753 0.319 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 55. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1981 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74817-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4886 2.440 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2889 0.474 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3270 0.536 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 61. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74822-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5508 2.184 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2577 0.363 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2855 0.402 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 71. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1983 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74827-10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2884 3.142 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2302 0.561 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2068 0.504 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1984 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74832-06 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4552 2.386 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2564 0.420 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2985 0.489 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 61. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1985 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74833-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3185 1.884 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2564 0.366 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3638 0.520 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 70. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1986 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/02/02 DATE OF DEATH: 01/02/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5276 2.387 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2470 0.386 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2877 0.450 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 64. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853-15 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4143 2.526 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2370 0.423 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2363 0.422 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 56. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74857-16 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3612 2.307 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1976 0.335 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2687 0.455 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 59. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1989 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74860-07 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/05/02 DATE OF DEATH: 01/05/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4099 2.043 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2749 0.398 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2710 0.393 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 69. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1990 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74862-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/06/02 DATE OF DEATH: 01/06/02 STUDY DAY: 32  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3555 2.465 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3155 0.574 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2537 0.461 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 55. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

1991 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74866-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/03/02 DATE OF DEATH: 01/03/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3462 2.071 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2296 0.353 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3187 0.490 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 65. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 174 (F1 - PND 28 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74870-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 01/04/02 DATE OF DEATH: 01/04/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3262 2.411 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3043 0.553 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.3483 0.633 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 55. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PGRHv4.31  
09/25/2002  
R:10/04/2002

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SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 1  
DAY 28

MALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737-04	82.	1.4857	0.3275	0.3724
74740-06	78.	1.5490	0.3030	0.4069
74757-03	77.	1.5269	0.3432	0.3947
74759-04	73.	1.5421	0.3062	0.3563
74764-08	70.	1.4837	0.2667	0.3320
74767-04	61.	1.3568	0.2421	0.2464
74772-06	76.	1.6363	0.2864	0.3730
74773-04	81.	1.6219	0.3503	0.3965
74774-04	62.	1.4917	0.3025	0.3102
74789-01	72.	1.4377	0.3197	0.3248
74804-06	63.	1.4189	0.2782	0.3004
74808-05	62.	1.3841	0.3505	0.2329
74810-03	65.	1.5329	0.2863	0.3995
74826-06	75.	1.4676	0.3013	0.2835
74829-04	75.	1.6427	0.3359	0.2969
74840-01	99.	1.4758	0.3685	0.4395
74841-03	76.	1.5380	0.2626	0.4236
74844-01	70.	1.2391	0.2853	0.3077
74845-02	79.	1.4170	0.3126	0.2676
74854-03	70.	1.4275	0.3653	0.2980
74864-10	35.	1.2922	0.1392	0.1405
74867-02	74.	1.6336	0.3758	0.3860
MEAN	72.	1.4819	0.3050	0.3313
S.D.	11.8	0.10731	0.05189	0.07232
N	22	22	22	22

FBW = FINAL BODY WEIGHT

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 SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 2  
 DAY 28

MALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742-09	53.	1.3292	0.2351	0.2339
74746-02	36.	1.2103	0.1705	0.1228
74753-03	57.	1.4636	0.2746	0.2384
74761-05	27.	1.1208	0.1007	0.0760
74762-01	41.	1.3516	0.1700	0.1976
74782-03	33.	1.1321	0.1726	0.1165
74785-01	61.	1.3578	0.2341	0.3034
74790-04	74.	1.5026	0.3938	0.3904
74796-09	70.	1.4542	0.3489	0.3510
74797-06	60.	1.3618	0.3398	0.2360
74798-01	42.	1.3157	0.1879	0.1644
74802-01	79.	1.5784	0.3566	0.5239
74809-10	71.	1.4415	0.2838	0.3287
74816-07	81.	1.5401	0.3363	0.3628
74819-02	68.	1.6450	0.2868	0.2237
74823-06	66.	1.4568	0.2851	0.2711
74824-01	40.	1.2903	0.1761	0.1669
74835-06	72.	1.4427	0.3121	0.3793
74838-05	72.	1.5202	0.2623	0.2553
74839-05	66.	1.5063	0.3163	0.2856
74846-05	84.	1.6428	0.3373	0.2786
74856-04	66.	1.4698	0.3593	0.2725
74859-01	74.	1.5444	0.2671	0.3118
74861-01	62.	1.5137	0.2860	0.2485
74863-03	74.	1.3145	0.2665	0.3002
74869-03	66.	1.4720	0.2340	0.3230
MEAN	61.	1.4222	0.2690	0.2678
S.D.	15.7	0.13772	0.07299	0.09643
N	26	26	26	26

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 3  
 DAY 28

MALE GROUP: 1000 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738-08	55.	1.3587	0.3199	0.1805
74739-01	75.	1.4350	0.3165	0.3596
74743-02	80.	1.5130	0.3008	0.4052
74744-07	67.	1.4667	0.3047	0.2377
74748-08	40.	1.3402	0.1657	0.1194
74752-04	63.	1.4879	0.2760	0.3097
74766-06	59.	1.3693	0.2563	0.2088
74780-02	71.	1.6296	0.2418	0.3156
74791-06	51.	1.2978	0.2160	0.2410
74793-04	55.	1.4477	0.2807	0.1850
74795-05	74.	1.4078	0.2862	0.3736
74799-01	55.	1.3832	0.3099	0.2487
74801-07	55.	1.4225	0.2658	0.2683
74806-07	59.	1.4851	0.2488	0.2395
74820-04	61.	1.4064	0.2891	0.2762
74821-03	63.	1.0902	0.2714	0.2879
74830-06	75.	1.4976	0.2897	0.3474
74831-10	76.	1.4469	0.2973	0.3880
74834-06	69.	1.5187	0.2528	0.3136
74847-08	59.	1.4636	0.2555	0.3291
74848-02	73.	1.4922	0.2878	0.3558
74849-04	66.	1.4411	0.3051	0.2586
74850-06	63.	1.4920	0.3031	0.2842
74855-04	72.	1.4570	0.3672	0.3092
74858-06	85.	1.5975	0.2815	0.3226
74871-04	71.	1.4412	0.2345	0.3482
MEAN	65.	1.4380	0.2779	0.2890
S.D.	10.2	0.10135	0.03896	0.06929
N	26	26	26	26

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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DAY 28

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74747-06	78.	1.5256	0.3534	0.2842
74751-01	81.	1.6213	0.3650	0.2778
74754-10	72.	1.4390	0.2679	0.4331
74755-04	81.	1.5311	0.3268	0.4011
74768-06	64.	1.4171	0.3255	0.3418
74769-06	38.	1.3564	0.2745	0.1541
74770-05	87.	1.6436	0.3820	0.3614
74786-06	74.	1.4472	0.3399	0.4308
74787-01	57.	1.4253	0.3349	0.2298
74792-06	70.	1.4512	0.2826	0.3516
74807-04	60.	1.5057	0.3065	0.3003
74811-05	79.	1.5988	0.3291	0.3326
74813-04	58.	1.3696	0.2889	0.2305
74817-02	60.	1.6305	0.3311	0.2366
74822-16	70.	1.5597	0.3038	0.2843
74827-06	63.	1.4137	0.2947	0.3448
74832-05	64.	1.4319	0.2720	0.2491
74833-08	73.	1.4169	0.2805	0.3405
74836-02	73.	1.5785	0.2890	0.3477
74853-09	68.	1.5337	0.3794	0.3018
74857-08	67.	1.3933	0.2818	0.2716
74860-05	64.	1.4327	0.2554	0.2850
74862-01	60.	1.4435	0.3412	0.2498
74866-04	71.	1.5025	0.2902	0.3152
74870-08	73.	1.4485	0.3786	0.4286
MEAN	68.	1.4847	0.3150	0.3114
S.D.	10.1	0.08379	0.03778	0.06951
N	25	25	25	25

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FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
 SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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 DAY 28

FEMALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737-11	75.	1.4804	0.2628	0.2959
74740-08	76.	1.3462	0.2621	0.3491
74757-12	66.	1.5066	0.3096	0.3570
74759-13	71.	1.5012	0.2930	0.3800
74764-16	66.	1.4801	0.2576	0.4024
74767-11	62.	1.3471	0.2724	0.2993
74772-13	79.	1.4717	0.2817	0.3919
74773-16	62.	1.5012	0.2761	0.3079
74774-07	55.	1.3917	0.2429	0.1568
74789-13	74.	1.5323	0.2556	0.3543
74804-09	57.	1.3834	0.2432	0.2433
74808-10	67.	1.4279	0.2309	0.2929
74810-13	67.	1.4873	0.2615	0.3777
74826-10	69.	1.3987	0.2533	0.3388
74829-15	68.	1.5921	0.2618	0.3614
74841-10	70.	1.4837	0.2305	0.3778
74844-06	56.	1.3770	0.2450	0.2567
74845-05	73.	1.3761	0.3095	0.2946
74854-13	68.	1.4097	0.3329	0.2650
74864-17	31.	1.1851	0.1028	0.1234
74867-14	65.	1.5251	0.2954	0.2937
MEAN	66.	1.4383	0.2610	0.3105
S.D.	10.2	0.08886	0.04514	0.07322
N	21	21	21	21

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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DAY 28

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742-15	53.	1.3202	0.2334	0.2516
74746-13	37.	1.3333	0.2689	0.1595
74753-14	57.	1.4276	0.2486	0.2518
74761-13	23.	1.0248	0.0930	0.0822
74762-10	38.	1.3288	0.1475	0.1654
74782-11	26.	1.1219	0.1546	0.0946
74785-13	54.	1.2792	0.2617	0.2519
74790-16	67.	1.5704	0.3267	0.3401
74796-13	66.	1.2935	0.3538	0.3540
74797-13	63.	1.3370	0.2632	0.2917
74798-09	46.	1.3310	0.2287	0.2167
74802-13	57.	1.3972	0.2518	0.3106
74809-04	74.	1.4505	0.2938	0.3967
74816-10	69.	1.4114	0.2616	0.3413
74819-12	61.	1.4185	0.2594	0.2055
74823-07	68.	1.4272	0.2628	0.3082
74824-10	42.	1.2630	0.1788	0.1805
74835-14	70.	1.3776	0.2770	0.3702
74838-14	73.	1.4225	0.2612	0.3105
74839-12	52.	1.3628	0.2320	0.2316
74846-12	69.	1.3524	0.2874	0.3041
74856-12	63.	1.4472	0.2453	0.3672
74859-07	60.	1.3807	0.2264	0.3246
74861-04	45.	1.2696	0.1734	0.1516
74863-13	74.	1.4157	0.2532	0.3197
74869-10	70.	1.5129	0.3435	0.3316
MEAN	57.	1.3568	0.2457	0.2659
S.D.	14.5	0.11131	0.05899	0.08683
N	26	26	26	26

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FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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DAY 28

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738-13	52.	1.2753	0.2183	0.1972
74739-10	76.	1.4793	0.2981	0.3479
74743-05	67.	1.5110	0.2539	0.2816
74744-15	56.	1.3950	0.2167	0.1895
74748-07	44.	1.2714	0.1834	0.1279
74752-13	64.	1.3818	0.2539	0.3097
74766-10	67.	1.4589	0.2382	0.3527
74780-07	64.	1.4528	0.2077	0.2514
74791-12	53.	1.3447	0.2372	0.2545
74793-12	50.	1.3340	0.2206	0.1633
74795-14	72.	1.4643	0.2518	0.3585
74799-13	57.	1.3830	0.2885	0.2385
74801-13	58.	1.4594	0.3146	0.2973
74806-09	62.	1.4377	0.2874	0.3368
74820-11	70.	1.4181	0.3154	0.3722
74821-08	71.	1.4887	0.2832	0.3668
74830-15	66.	1.4353	0.2320	0.3658
74831-08	67.	1.4378	0.3078	0.4385
74834-09	73.	1.4910	0.2579	0.2907
74847-15	54.	1.3407	0.2515	0.2827
74848-08	60.	1.4302	0.2151	0.3852
74849-05	63.	1.3922	0.3091	0.2755
74850-12	58.	1.4218	0.2348	0.2081
74855-15	46.	1.1886	0.2201	0.2164
74858-17	64.	1.3693	0.2701	0.2832
74868-16	28.	1.0399	0.1111	0.1016

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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DAY 28

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74871-14	59.	1.3259	0.2394	0.3483
MEAN	60.	1.3862	0.2488	0.2830
S.D.	10.4	0.10264	0.04541	0.08336
N	27	27	27	27

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 175 (F1 - PND 28 PUPS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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DAY 28

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74747-13	66.	1.5336	0.3293	0.2914
74751-14	71.	1.5385	0.2955	0.3432
74754-16	65.	1.3585	0.2306	0.3306
74755-12	74.	1.4297	0.2853	0.2999
74768-14	57.	1.4284	0.2792	0.2256
74769-13	49.	1.3823	0.2887	0.2074
74770-12	77.	1.4789	0.2934	0.3177
74786-12	66.	1.3326	0.2393	0.2911
74787-15	61.	1.3795	0.3060	0.2135
74792-09	69.	1.3777	0.2949	0.2840
74807-11	59.	1.4553	0.2199	0.2537
74811-14	74.	1.5246	0.2495	0.2826
74813-13	55.	1.4310	0.1939	0.1753
74817-08	61.	1.4886	0.2889	0.3270
74822-13	71.	1.5508	0.2577	0.2855
74827-10	41.	1.2884	0.2302	0.2068
74832-06	61.	1.4552	0.2564	0.2985
74833-12	70.	1.3185	0.2564	0.3638
74836-14	64.	1.5276	0.2470	0.2877
74853-15	56.	1.4143	0.2370	0.2363
74857-16	59.	1.3612	0.1976	0.2687
74860-07	69.	1.4099	0.2749	0.2710
74862-14	55.	1.3555	0.3155	0.2537
74866-14	65.	1.3462	0.2296	0.3187
74870-11	55.	1.3262	0.3043	0.3483
MEAN	63.	1.4197	0.2640	0.2793
S.D.	8.5	0.07730	0.03643	0.04871
N	25	25	25	25

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FBW = FINAL BODY WEIGHT

POFBWv4.12  
09/25/2002

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 1  
DAY 28

MALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737-04	82.	1.812	0.399	0.454
74740-06	78.	1.986	0.388	0.522
74757-03	77.	1.983	0.446	0.513
74759-04	73.	2.112	0.419	0.488
74764-08	70.	2.120	0.381	0.474
74767-04	61.	2.224	0.397	0.404
74772-06	76.	2.153	0.377	0.491
74773-04	81.	2.002	0.432	0.490
74774-04	62.	2.406	0.488	0.500
74789-01	72.	1.997	0.444	0.451
74804-06	63.	2.252	0.442	0.477
74808-05	62.	2.232	0.565	0.376
74810-03	65.	2.358	0.440	0.615
74826-06	75.	1.957	0.402	0.378
74829-04	75.	2.190	0.448	0.396
74840-01	99.	1.491	0.372	0.444
74841-03	76.	2.024	0.346	0.557
74844-01	70.	1.770	0.408	0.440
74845-02	79.	1.794	0.396	0.339
74854-03	70.	2.039	0.522	0.426
74864-10	35.	3.692	0.398	0.401
74867-02	74.	2.208	0.508	0.522
MEAN	72.	2.127	0.428	0.462
S.D.	11.8	0.4077	0.0535	0.0653
N	22	22	22	22

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2  
DAY 28

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742-09	53.	2.508	0.444	0.441
74746-02	36.	3.362	0.474	0.341
74753-03	57.	2.568	0.482	0.418
74761-05	27.	4.151	0.373	0.281
74762-01	41.	3.297	0.415	0.482
74782-03	33.	3.431	0.523	0.353
74785-01	61.	2.226	0.384	0.497
74790-04	74.	2.031	0.532	0.528
74796-09	70.	2.077	0.498	0.501
74797-06	60.	2.270	0.566	0.393
74798-01	42.	3.133	0.447	0.391
74802-01	79.	1.998	0.451	0.663
74809-10	71.	2.030	0.400	0.463
74816-07	81.	1.901	0.415	0.448
74819-02	68.	2.419	0.422	0.329
74823-06	66.	2.207	0.432	0.411
74824-01	40.	3.226	0.440	0.417
74835-06	72.	2.004	0.433	0.527
74838-05	72.	2.111	0.364	0.355
74839-05	66.	2.282	0.479	0.433
74846-05	84.	1.956	0.402	0.332
74856-04	66.	2.227	0.544	0.413
74859-01	74.	2.087	0.361	0.421
74861-01	62.	2.441	0.461	0.401
74863-03	74.	1.776	0.360	0.406
74869-03	66.	2.230	0.355	0.489
MEAN	61.	2.460	0.441	0.428
S.D.	15.7	0.5966	0.0595	0.0793
N	26	26	26	26

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FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 3  
DAY 28

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738-08	55.	2.470	0.582	0.328
74739-01	75.	1.913	0.422	0.479
74743-02	80.	1.891	0.376	0.507
74744-07	67.	2.189	0.455	0.355
74748-08	40.	3.350	0.414	0.299
74752-04	63.	2.362	0.438	0.492
74766-06	59.	2.321	0.434	0.354
74780-02	71.	2.295	0.341	0.445
74791-06	51.	2.545	0.424	0.473
74793-04	55.	2.632	0.510	0.336
74795-05	74.	1.902	0.387	0.505
74799-01	55.	2.515	0.563	0.452
74801-07	55.	2.586	0.483	0.488
74806-07	59.	2.517	0.422	0.406
74820-04	61.	2.306	0.474	0.453
74821-03	63.	1.730	0.431	0.457
74830-06	75.	1.997	0.386	0.463
74831-10	76.	1.904	0.391	0.511
74834-06	69.	2.201	0.366	0.454
74847-08	59.	2.481	0.433	0.558
74848-02	73.	2.044	0.394	0.487
74849-04	66.	2.183	0.462	0.392
74850-06	63.	2.368	0.481	0.451
74855-04	72.	2.024	0.510	0.429
74858-06	85.	1.879	0.331	0.380
74871-04	71.	2.030	0.330	0.490
MEAN	65.	2.255	0.432	0.440
S.D.	10.2	0.3431	0.0646	0.0653
N	26	26	26	26

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4  
DAY 28

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74747-06	78.	1.956	0.453	0.364
74751-01	81.	2.002	0.451	0.343
74754-10	72.	1.999	0.372	0.602
74755-04	81.	1.890	0.403	0.495
74768-06	64.	2.214	0.509	0.534
74769-06	38.	3.569	0.722	0.406
74770-05	87.	1.889	0.439	0.415
74786-06	74.	1.956	0.459	0.582
74787-01	57.	2.501	0.588	0.403
74792-06	70.	2.073	0.404	0.502
74807-04	60.	2.510	0.511	0.501
74811-05	79.	2.024	0.417	0.421
74813-04	58.	2.361	0.498	0.397
74817-02	60.	2.718	0.552	0.394
74822-16	70.	2.228	0.434	0.406
74827-06	63.	2.244	0.468	0.547
74832-05	64.	2.237	0.425	0.389
74833-08	73.	1.941	0.384	0.466
74836-02	73.	2.162	0.396	0.476
74853-09	68.	2.255	0.558	0.444
74857-08	67.	2.080	0.421	0.405
74860-05	64.	2.239	0.399	0.445
74862-01	60.	2.406	0.569	0.416
74866-04	71.	2.116	0.409	0.444
74870-08	73.	1.984	0.519	0.587
MEAN	68.	2.222	0.470	0.455
S.D.	10.1	0.3517	0.0812	0.0717
N	25	25	25	25

2006 of 3891

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 5  
DAY 28

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737-11	75.	1.974	0.350	0.395
74740-08	76.	1.771	0.345	0.459
74757-12	66.	2.283	0.469	0.541
74759-13	71.	2.114	0.413	0.535
74764-16	66.	2.243	0.390	0.610
74767-11	62.	2.173	0.439	0.483
74772-13	79.	1.863	0.357	0.496
74773-16	62.	2.421	0.445	0.497
74774-07	55.	2.530	0.442	0.285
74789-13	74.	2.071	0.345	0.479
74804-09	57.	2.427	0.427	0.427
74808-10	67.	2.131	0.345	0.437
74810-13	67.	2.220	0.390	0.564
74826-10	69.	2.027	0.367	0.491
74829-15	68.	2.341	0.385	0.531
74841-10	70.	2.120	0.329	0.540
74844-06	56.	2.459	0.438	0.458
74845-05	73.	1.885	0.424	0.404
74854-13	68.	2.073	0.490	0.390
74864-17	31.	3.823	0.332	0.398
74867-14	65.	2.346	0.454	0.452
MEAN	66.	2.252	0.399	0.470
S.D.	10.2	0.4143	0.0493	0.0734
N	21	21	21	21

FBW = FINAL BODY WEIGHT

2007 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 6  
DAY 28

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742-15	53.	2.491	0.440	0.475
74746-13	37.	3.604	0.727	0.431
74753-14	57.	2.505	0.436	0.442
74761-13	23.	4.456	0.404	0.357
74762-10	38.	3.497	0.388	0.435
74782-11	26.	4.315	0.595	0.364
74785-13	54.	2.369	0.485	0.466
74790-16	67.	2.344	0.488	0.508
74796-13	66.	1.960	0.536	0.536
74797-13	63.	2.122	0.418	0.463
74798-09	46.	2.893	0.497	0.471
74802-13	57.	2.451	0.442	0.545
74809-04	74.	1.960	0.397	0.536
74816-10	69.	2.046	0.379	0.495
74819-12	61.	2.325	0.425	0.337
74823-07	68.	2.099	0.386	0.453
74824-10	42.	3.007	0.426	0.430
74835-14	70.	1.968	0.396	0.529
74838-14	73.	1.949	0.358	0.425
74839-12	52.	2.621	0.446	0.445
74846-12	69.	1.960	0.417	0.441
74856-12	63.	2.297	0.389	0.583
74859-07	60.	2.301	0.377	0.541
74861-04	45.	2.821	0.385	0.337
74863-13	74.	1.913	0.342	0.432
74869-10	70.	2.161	0.491	0.474
MEAN	57.	2.555	0.441	0.460
S.D.	14.5	0.7034	0.0819	0.0647
N	26	26	26	26

FBW = FINAL BODY WEIGHT

2008 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 7  
DAY 28

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738-13	52.	2.453	0.420	0.379
74739-10	76.	1.946	0.392	0.458
74743-05	67.	2.255	0.379	0.420
74744-15	56.	2.491	0.387	0.338
74748-07	44.	2.890	0.417	0.291
74752-13	64.	2.159	0.397	0.484
74766-10	67.	2.177	0.356	0.526
74780-07	64.	2.270	0.325	0.393
74791-12	53.	2.537	0.448	0.480
74793-12	50.	2.668	0.441	0.327
74795-14	72.	2.034	0.350	0.498
74799-13	57.	2.426	0.506	0.418
74801-13	58.	2.516	0.542	0.513
74806-09	62.	2.319	0.464	0.543
74820-11	70.	2.026	0.451	0.532
74821-08	71.	2.097	0.399	0.517
74830-15	66.	2.175	0.352	0.554
74831-08	67.	2.146	0.459	0.654
74834-09	73.	2.042	0.353	0.398
74847-15	54.	2.483	0.466	0.524
74848-08	60.	2.384	0.359	0.642
74849-05	63.	2.210	0.491	0.437
74850-12	58.	2.451	0.405	0.359
74855-15	46.	2.584	0.478	0.470
74858-17	64.	2.140	0.422	0.443
74868-16	28.	3.714	0.397	0.363

2009 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8  
DAY 28

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74871-14	59.	2.247	0.406	0.590
MEAN	60.	2.364	0.417	0.465
S.D.	10.4	0.3501	0.0536	0.0930
N	27	27	27	27

FBW = FINAL BODY WEIGHT

2010 of 3891

PROJECT NO.:WIL-186013T  
SPONSOR:ACC

TABLE 176 (F1 - PND 28)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 9  
DAY 28

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74747-13	66.	2.324	0.499	0.442
74751-14	71.	2.167	0.416	0.483
74754-16	65.	2.090	0.355	0.509
74755-12	74.	1.932	0.386	0.405
74768-14	57.	2.506	0.490	0.396
74769-13	49.	2.821	0.589	0.423
74770-12	77.	1.921	0.381	0.413
74786-12	66.	2.019	0.363	0.441
74787-15	61.	2.261	0.502	0.350
74792-09	69.	1.997	0.427	0.412
74807-11	59.	2.467	0.373	0.430
74811-14	74.	2.060	0.337	0.382
74813-13	55.	2.602	0.353	0.319
74817-08	61.	2.440	0.474	0.536
74822-13	71.	2.184	0.363	0.402
74827-10	41.	3.142	0.561	0.504
74832-06	61.	2.386	0.420	0.489
74833-12	70.	1.884	0.366	0.520
74836-14	64.	2.387	0.386	0.450
74853-15	56.	2.526	0.423	0.422
74857-16	59.	2.307	0.335	0.455
74860-07	69.	2.043	0.398	0.393
74862-14	55.	2.465	0.574	0.461
74866-14	65.	2.071	0.353	0.490
74870-11	55.	2.411	0.553	0.633
MEAN	63.	2.297	0.427	0.446
S.D.	8.5	0.2988	0.0798	0.0656
N	25	25	25	25

FBW = FINAL BODY WEIGHT

POFBWv4.12  
09/25/2002

2011 of 3891

**FINAL REPORT**

Volume 6 of 10  
(Individual Tables 177-185)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 177 - 185**

TABLE 177 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 1: 0 PPM

ANIMAL	#PUPS	DAY: 35	36	37	38	39	40	41	42	43	44	45	46
74737	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
74740	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74757	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74759	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74764	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74767	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74772	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74773	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74774	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74789	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74804	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74808	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74810	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74826	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74829	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74840	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74841	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74844	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74845	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74854	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74864	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74867	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
TOTAL	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%	2	7.0%

2014 of 3891

BALANOPREPUTIAL SEPARATION  
 MALES

-----  
 LITTERS FROM GROUP 1:            0 PPM  
 -----

ANIMAL	#PUPS	DAY:	47	48	49	50	51	52	53	54	55	56	57	58
74740	1	1	100.%											
74757	2	1	50.%	1 50.%	1 50.%	1 50.%	1 50.%	2 100.%						
74759	2	1	50.%	1 50.%	1 50.%	1 50.%	2 100.%							
74767	1	0	0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%				
74774	1	0	0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%						
74789	1	0	0.%	0 0.%	1 100.%									
74804	1	0	0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%						
74808	1	0	0.%	1 100.%										
74810	2	0	0.%	0 0.%	0 0.%	0 0.%	1 50.%	1 50.%	1 50.%	2 100.%				
74826	1	1	100.%											
74829	1	0	0.%	1 100.%										
74840	1	0	0.%	0 0.%	0 0.%	1 100.%								
74841	2	0	0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 50.%	2 100.%		
74844	1	0	0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74845	2	0	0.%	0 0.%	1 50.%	1 50.%	2 100.%							
74854	2	0	0.%	0 0.%	0 0.%	0 0.%	2 100.%							
74864	1	0	0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%						
74867	2	1	50.%	2 100.%										
-----														
TOTAL	30	10	33.%	13 43.%	15 50.%	17 57.%	23 77.%	26 87.%	27 90.%	28 93.%	29 97.%	30 100.%		

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2015 of 3891

PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 177 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 3

BALANOPREPUTIAL SEPARATION  
MALES

-----  
LITTERS FROM GROUP 1:        0 PPM

-----  
ANIMAL #PUPS DAY: 59        60        61        62  
-----

ALL LITTERS PREVIOUSLY COMPLETED

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 2: 500 PPM

ANIMAL	#PUPS	DAY: 35	36	37	38	39	40	41	42	43	44	45	46
74742	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74746	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74753	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74761	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74762	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74782	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74785	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74790	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74796	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74797	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74798	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74802	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74809	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74816	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74819	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74823	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74824	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74835	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74838	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74839	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74846	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74856	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74859	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74861	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74863	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

2017 of 3891

PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 177 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 5

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 2:		500 PPM																							
ANIMAL	#PUPS	DAY:	35	36	37	38	39	40	41	42	43	44	45	46											
74869	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
TOTAL	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%	7	23.0%								

2018 of 3891

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 2: 500 PPM

ANIMAL	#PUPS	DAY: 47	48	49	50	51	52	53	54	55	56	57	58												
74742	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%														
74746	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%										
74753	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%												
74761	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%										
74762	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%												
74782	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%										
74785	1	0	0.0%	0	0.0%	1	100.0%																		
74790	2	1	50.0%	1	50.0%	1	50.0%	2	100.0%																
74796	1	0	0.0%	0	0.0%	1	100.0%																		
74797	1	0	0.0%	0	0.0%	0	0.0%	1	100.0%																
74798	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%												
74802	2	1	50.0%	2	100.0%																				
74819	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%														
74824	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%												
74835	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%														
74839	1	0	0.0%	1	100.0%																				
74856	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%												
74859	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%												
74861	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%										
74863	2	2	100.0%																						
74869	1	0	0.0%	0	0.0%	0	0.0%	1	100.0%																
TOTAL	30	9	30.0%	11	37.0%	13	43.0%	15	50.0%	18	60.0%	21	70.0%	23	77.0%	26	87.0%	26	87.0%	27	90.0%	28	93.0%	28	93.0%

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 177 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 7

BALANOPREPUTIAL SEPARATION  
MALES

-----										
LITTERS FROM GROUP 2: 500 PPM										
-----										
ANIMAL	#PUPS	DAY:	59	60	61	62				
-----										
74761	1	0	0.0%	0	0.0%	0	0.0%	1	100.0%	
74782	1	0	0.0%	1	100.0%					
-----										
TOTAL	30	28	93.0%	29	97.0%	29	97.0%	30	100.0%	

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 3: 1000 PPM

ANIMAL	#PUPS	DAY: 35	36	37	38	39	40	41	42	43	44	45	46
74738	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74739	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74743	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74744	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74748	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74752	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74766	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74780	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74791	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74793	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74795	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74799	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74801	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74806	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74820	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74821	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74830	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74831	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74834	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74847	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74848	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74849	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74850	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74855	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74858	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 177 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

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BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 3:		1000 PPM																							
ANIMAL	#PUPS	DAY:	35	36	37	38	39	40	41	42	43	44	45	46											
74868	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74871	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%				
TOTAL	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%	3	10.0%	7	23.0%		

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BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 3: 1000 PPM

ANIMAL	#PUPS	DAY: 47	48	49	50	51	52	53	54	55	56	57	58
74738	1	0 0.%	0 0.%	0 0.%	1 100.%								
74739	1	1 100.%											
74743	1	0 0.%	0 0.%	1 100.%									
74744	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%					
74748	2	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 50.%	1 50.%	1 50.%	1 50.%	1 50.%	1 50.%
74752	1	0 0.%	0 0.%	0 0.%	1 100.%								
74766	1	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74780	1	0 0.%	0 0.%	0 0.%	1 100.%								
74791	2	0 0.%	0 0.%	0 0.%	2 100.%								
74793	1	0 0.%	0 0.%	0 0.%	1 100.%								
74799	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%		
74806	2	1 50.%	1 50.%	1 50.%	2 100.%								
74820	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%						
74821	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%	
74830	1	1 100.%											
74831	1	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74834	1	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74848	1	0 0.%	0 0.%	0 0.%	1 100.%								
74850	1	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74868	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%
TOTAL	30	10 33.%	10 33.%	11 37.%	19 63.%	23 77.%	24 80.%	26 87.%	26 87.%	26 87.%	26 87.%	27 90.%	28 93.%

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 177 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

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BALANOPREPUTIAL SEPARATION  
MALES

-----  
LITTERS FROM GROUP 3: 1000 PPM

ANIMAL	#PUPS	DAY:	59	60	61	62	
74748	2	1	50.%	1	50.%	2	100.%
74868	1	1	100.%				
TOTAL	30	29	97.%	29	97.%	30	100.%

TABLE 177 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 4: 2500 PPM

ANIMAL	#PUPS	DAY: 35	36	37	38	39	40	41	42	43	44	45	46				
74747	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%	1	50.0%		
74751	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74754	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%				
74755	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%				
74768	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%				
74769	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74770	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%		
74786	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%		
74787	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74792	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74807	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74811	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74813	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74817	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74822	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74827	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74832	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74833	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%				
74836	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74853	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74857	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74860	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74862	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74866	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
74870	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
TOTAL	30	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.0%	2	7.0%	5	17.0%	7	23.0%

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BALANOPREPUTIAL SEPARATION  
 MALES

LITTERS FROM GROUP 4: 2500 PPM

ANIMAL	#PUPS	DAY: 47	48	49	50	51	52	53	54	55	56	57	58
74747	2	1 50.%	1 50.%	1 50.%	2 100.%								
74751	2	0 0.%	0 0.%	0 0.%	0 0.%	1 50.%	1 50.%	1 50.%	2 100.%				
74769	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%
74786	2	2 100.%											
74787	1	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%							
74792	1	1 100.%											
74807	1	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	0 0.%	1 100.%	
74811	1	1 100.%											
74813	1	1 100.%											
74817	1	0 0.%	1 100.%										
74822	2	1 50.%	2 100.%										
74827	1	0 0.%	1 100.%										
74832	1	0 0.%	0 0.%	1 100.%									
74836	1	0 0.%	0 0.%	0 0.%	1 100.%								
74853	1	0 0.%	0 0.%	1 100.%									
74857	1	0 0.%	1 100.%										
74860	2	1 50.%	2 100.%										
74862	1	0 0.%	0 0.%	1 100.%									
74866	1	0 0.%	0 0.%	1 100.%									
74870	1	0 0.%	1 100.%										
TOTAL	30	13 43.%	19 63.%	23 77.%	25 83.%	27 90.%	27 90.%	27 90.%	28 93.%	28 93.%	28 93.%	29 97.%	30 100.%

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 177 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

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BALANOPREPUTIAL SEPARATION  
MALES

-----  
LITTERS FROM GROUP 4: 2500 PPM

-----  
ANIMAL #PUPS DAY: 59 60 61 62  
-----

ALL LITTERS PREVIOUSLY COMPLETED

PBBv4.0  
09/05/2002  
R:09/14/2002

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

MALES: 0 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74737-03	226.1	226.1
74740-02	212.4	212.4
74757-08	220.9	
74757-05	266.4	243.7
74759-02	242.2	
74759-05	207.8	225.0
74764-02	220.8	220.8
74767-07	235.6	235.6
74772-02	223.3	
74772-08	208.6	216.0
74773-02	231.6	231.6
74774-03	264.0	264.0
74789-04	207.0	207.0
74804-04	213.3	213.3
74808-01	230.7	230.7
74810-07	253.7	
74810-02	255.2	254.5
74826-05	241.0	241.0
74829-05	229.9	229.9
74840-02	273.9	273.9
74841-02	284.5	
74841-06	246.9	265.7

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 2

MALES: 0 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74844-04	247.0	247.0
74845-01	234.8	
74845-03	221.8	228.3
74854-06	251.3	
74854-02	251.6	251.5
74864-06	226.8	226.8
74867-03	235.7	
74867-01	264.6	250.2
MEAN		236.1
S.D.		18.37
N		22

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TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

MALES: 500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74742-03	213.1	213.1
74746-06	203.5	203.5
74753-04	250.9	236.4
74753-02	221.9	
74761-09	190.9	190.9
74762-04	183.7	183.7
74782-04	193.5	193.5
74785-04	216.7	216.7
74790-02	212.6	224.3
74790-09	236.0	
74796-07	191.1	191.1
74797-09	250.0	250.0
74798-04	228.0	228.0
74802-05	214.9	218.8
74802-08	222.7	

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 4

MALES: 500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74809-09	228.6	228.6
74816-05	201.2	201.2
74819-03	256.2	256.2
74823-01	219.7	219.7
74824-05	195.6	195.6
74835-03	271.7	271.7
74838-06	201.6	201.6
74839-02	228.3	228.3
74846-03	245.0	245.0

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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MALES: 500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74856-06	223.5	223.5
74859-06	211.5	211.5
74861-02	221.0	221.0
74863-05	244.9	
74863-02	239.9	242.4
74869-02	245.8	245.8
	MEAN	220.9
	S.D.	22.41
	N	26

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TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

MALES: 1000 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74738-02	215.9	215.9
74739-04	222.0	222.0
74743-04	224.9	224.9
74744-02	207.3	207.3
74748-05	223.2	
74748-02	176.6	199.9
74752-05	222.8	222.8
74766-02	203.5	203.5
74780-03	235.1	235.1
74791-05	208.6	
74791-02	195.4	202.0
74793-05	223.9	223.9
74795-06	218.9	218.9
74799-03	242.4	242.4
74801-10	227.0	227.0
74806-06	204.4	
74806-03	224.1	214.3

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 7

MALES: 1000 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74820-02	227.3	227.3
74821-02	244.2	244.2
74830-02	224.3	224.3
74831-02	253.0	253.0
74834-04	279.6	279.6
74847-03	206.8	206.8
74848-03	240.3	240.3
74849-03	201.1	201.1

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 8

MALES: 1000 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74850-05	220.8	220.8
74855-08	204.0	204.0
74858-04	231.7	231.7
74868-02	212.1	212.1
74871-06	188.9	188.9
	MEAN	222.0
	S.D.	19.21
	N	27

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TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

MALES: 2500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74747-04	220.7	
74747-03	221.8	221.3
74751-05	284.8	
74751-02	246.4	265.6
74754-09	189.7	189.7
74755-05	239.6	239.6
74768-02	220.4	220.4
74769-07	226.7	226.7
74770-06	263.5	263.5
74786-05	231.7	
74786-07	226.3	229.0
74787-06	200.0	200.0
74792-03	222.3	222.3
74807-05	186.5	186.5
74811-01	228.8	228.8
74813-08	200.0	200.0
74817-04	222.7	222.7
74822-15	225.6	
74822-14	263.0	244.3

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 178 (F1 MALES - AT BALANOPREPUTIAL SEPARATION)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

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MALES: 2500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74827-03	191.1	191.1
74832-03	235.2	235.2
74833-02	180.7	180.7
74836-08	247.1	247.1
74853-06	228.4	228.4
74857-10	226.0	226.0
74860-03	234.4	
74860-02	207.1	220.8
74862-08	201.3	201.3
74866-01	223.7	223.7
74870-06	232.2	232.2
	MEAN	221.9
	S.D.	22.25
	N	25

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MANUALv1.0  
09/06/2002  
R:12/09/2002

VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 1: 0 PPM

ANIMAL	#PUPS	DAY:	25	26	27	28	29	30	31	32	33	34	35	36
74737	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%
74740	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
74757	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74759	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74764	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	
74767	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	2 100.0%
74772	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	2 100.0%			
74773	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	2 100.0%		
74774	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	2 100.0%
74789	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	2 100.0%	
74804	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 100.0%
74808	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	1 50.0%
74810	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	
74826	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 100.0%			
74829	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%				
74840	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%				
74841	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	
74844	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74845	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	1 33.0%	1 33.0%	3 100.0%
74854	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	1 33.0%	3 100.0%
74864	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74867	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
TOTAL	36	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4 11.0%	9 25.0%	15 42.0%	21 58.0%	29 81.0%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 2

VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 1:		0 PPM									
ANIMAL	#PUPS	DAY:	37	38	39	40	41	42	43	44	
74737	2	1	50.%	2	100.%						
74757	1	0	0.%	1	100.%						
74759	1	0	0.%	1	100.%						
74808	2	1	50.%	1	50.%	1	50.%	2	100.%		
74844	2	1	50.%	2	100.%						
74864	1	0	0.%	0	0.%	0	0.%	0	0.%	1	100.%
TOTAL	36	30	83.%	34	94.%	34	94.%	35	97.%	36	100.%

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VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 2: 500 PPM

ANIMAL	#PUPS	DAY:	25	26	27	28	29	30	31	32	33	34	35	36
74742	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74746	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74753	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74761	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74762	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74782	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74785	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74790	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3 100.0%	0.0%	0.0%
74796	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	0.0%
74797	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%
74798	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74802	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74809	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	2 100.0%	0.0%
74816	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	0.0%	0.0%
74819	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	1 50.0%
74823	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	0.0%	0.0%
74824	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74835	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	1 50.0%
74838	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74839	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	0.0%	0.0%
74846	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	0.0%	0.0%
74856	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74859	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 67.0%	3 100.0%	0.0%	0.0%
74861	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
74863	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	1 33.0%	2 67.0%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

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VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 2:		500 PPM																			
ANIMAL	#PUPS	DAY:	25	26	27	28	29	30	31	32	33	34	35	36							
74869	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
TOTAL	38	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	5.3%	14	37.0%	17	45.0%	19	50.0%		

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

VAGINAL PATENCY  
 FEMALES

-----  
 LITTERS FROM GROUP 2: 500 PPM  
 -----

ANIMAL	#PUPS	DAY:	37	38	39	40	41	42	43	44
74742	1	0	0.0%	1 100.0%						
74746	1	0	0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 100.0%		
74753	1	0	0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 100.0%		
74761	1	0	0.0%	0 0.0%	1 100.0%					
74762	1	0	0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 100.0%
74782	1	0	0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 100.0%	
74785	1	0	0.0%	1 100.0%						
74797	3	3	100.0%							
74798	2	0	0.0%	0 0.0%	0 0.0%	0 0.0%	1 50.0%	2 100.0%		
74802	1	1	100.0%							
74819	2	1	50.0%	2 100.0%						
74824	1	0	0.0%	0 0.0%	1 100.0%					
74835	2	1	50.0%	2 100.0%						
74838	1	1	100.0%							
74856	1	0	0.0%	0 0.0%	0 0.0%	1 100.0%				
74861	1	0	0.0%	0 0.0%	1 100.0%					
74863	3	3	100.0%							
TOTAL	38	24	63.0%	28 74.0%	31 82.0%	32 84.0%	33 87.0%	36 95.0%	37 97.0%	38 100.0%

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VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 3: 1000 PPM

ANIMAL	#PUPS	DAY:	25	26	27	28	29	30	31	32	33	34	35	36
74738	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	1 33.0%	1 33.0%
74739	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
74743	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	
74744	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%
74748	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	2 100.0%
74752	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74766	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	1 50.0%
74780	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	1 50.0%	1 50.0%	1 50.0%	1 50.0%
74791	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
74793	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
74795	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	3 100.0%	
74799	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74801	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74806	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74820	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%			
74821	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 100.0%
74830	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 67.0%	2 67.0%	2 67.0%
74831	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 33.0%	2 67.0%
74834	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%		
74847	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%	
74848	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%
74849	3	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2 67.0%
74850	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
74855	1	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 100.0%
74858	2	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 50.0%	2 100.0%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

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VAGINAL PATENCY  
 FEMALES

-----  
 LITTERS FROM GROUP 3: 1000 PPM  
 -----

ANIMAL	#PUPS	DAY:	25	26	27	28	29	30	31	32	33	34	35	36
74868	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
74871	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0
TOTAL	45	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.2%	2	4.4%	11
												24.4%	18	40.0%
													28	62.2%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 8

VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 3:		1000 PPM									
ANIMAL	#PUPS	DAY:	37	38	39	40	41	42	43	44	
74738	3	2	67.%	2 67.%	2 67.%	3 100.%					
74752	1	0	0.%	1 100.%							
74766	2	1	50.%	2 100.%							
74780	2	2	100.%								
74799	3	2	67.%	2 67.%	2 67.%	3 100.%					
74801	1	1	100.%								
74806	1	1	100.%								
74830	3	2	67.%	2 67.%	3 100.%						
74831	3	3	100.%								
74849	3	3	100.%								
74850	2	0	0.%	1 50.%	1 50.%	2 100.%					
74868	1	0	0.%	0 0.%	0 0.%	1 100.%					
74871	1	0	0.%	1 100.%							
TOTAL	45	36	80.%	40 89.%	41 91.%	43 96.%	45 100.%				

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VAGINAL PATENCY  
 FEMALES

LITTERS FROM GROUP 4: 2500 PPM

ANIMAL	#PUPS	DAY: 25	26	27	28	29	30	31	32	33	34	35	36
74747	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%		
74751	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%
74754	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
74755	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%
74768	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
74769	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74770	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%	1	33.0%
74786	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74787	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74792	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74807	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74811	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74813	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74817	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
74822	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%
74827	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%
74832	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74833	3	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	33.0%
74836	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74853	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74857	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74860	2	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	50.0%
74862	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
74866	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%		
74870	1	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
TOTAL	45	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	2.0%	3	7.0%
										6	13.0%	19	42.0%
										30	67.0%	38	84.0%

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PROJECT NO.:WIL-186013F  
 SPONSOR:ACC

TABLE 179 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL DEVELOPMENTAL PARAMETERS [LITTER VALUES]

PAGE 10

VAGINAL PATENCY  
 FEMALES

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 LITTERS FROM GROUP 4: 2500 PPM  
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ANIMAL	#PUPS	DAY:	37	38	39	40	41	42	43	44	
74755	3	2	67.%	3	100.%						
74769	1	0	0.%	0	0.%	0	0.%	0	0.%	1	100.%
74792	2	1	50.%	2	100.%						
74811	1	0	0.%	0	0.%	0	0.%	1	100.%		
74813	3	3	100.%								
74860	2	2	100.%								
74862	1	0	0.%	0	0.%	1	100.%				
TOTAL	45	40	89.%	42	93.%	43	96.%	44	98.%	45	100.%

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
MEAN LITTER BODY WEIGHTS [G]

PAGE 1

FEMALES: 0 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74737-14	119.5	
74737-10	139.2	129.4
74740-07	111.5	111.5
74757-11	137.5	137.5
74759-09	116.7	116.7
74764-10	109.9	109.9
74767-16	97.8	
74767-10	105.4	101.6
74772-09	97.1	
74772-11	95.3	96.2
74773-15	102.0	
74773-08	103.8	102.9
74774-12	96.6	
74774-15	116.4	106.5
74789-10	101.4	
74789-09	87.8	94.6
74804-11	89.9	
74804-08	111.3	100.6
74808-13	108.6	
74808-11	136.4	122.5
74810-16	105.5	105.5
74826-11	105.3	
74826-08	103.9	104.5
74829-11	96.6	96.6
74840-03	113.9	113.9

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PROJECT NO.:WIL-186013F  
SPONSOR:ACC

TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
MEAN LITTER BODY WEIGHTS [G]

PAGE 2

FEMALES: 0 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74841-12	108.8	108.8
74844-05	118.9	
74844-07	112.2	115.6
74845-07	115.1	
74845-04	101.4	
74845-12	104.9	107.1
74854-08	105.6	
74854-10	88.3	
74854-11	120.4	104.8
74864-15	86.5	86.5
74867-07	125.4	125.4
	MEAN	109.0
	S.D.	12.09
	N	22

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
MEAN LITTER BODY WEIGHTS [G]

FEMALES: 500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74742-18	82.0	82.0
74746-10	126.7	126.7
74753-12	132.1	132.1
74761-12	87.9	87.9
74762-11	108.2	108.2
74782-09	79.3	79.3
74785-08	107.2	107.2
74790-15	101.1	
74790-14	98.1	
74790-11	103.2	100.8
74796-15	117.2	117.2
74797-10	95.9	
74797-12	113.6	
74797-11	103.0	104.2
74798-13	114.5	
74798-12	120.3	117.4
74802-10	102.9	102.9
74809-06	104.5	
74809-08	105.5	105.0
74816-12	114.0	114.0
74819-10	115.5	
74819-11	94.4	105.0
74823-12	101.9	101.9
74824-11	110.2	110.2

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 MEAN LITTER BODY WEIGHTS [G]

FEMALES: 500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74835-11	93.8	
74835-07	103.8	98.8
74838-11	117.2	117.2
74839-18	94.7	94.7
74846-07	116.3	116.3
74856-15	93.4	93.4
74859-09	88.8	
74859-10	110.4	
74859-12	93.2	97.5
74861-05	106.4	106.4
74863-09	112.8	
74863-10	116.1	
74863-06	140.0	123.0
74869-04	103.1	103.1
	MEAN	105.9
	S.D.	12.76
	N	26

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
MEAN LITTER BODY WEIGHTS [G]

FEMALES: 1000 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74738-07	104.3	
74738-11	103.8	
74738-12	121.8	110.0
74739-08	110.1	110.1
74743-08	113.8	113.8
74744-16	96.4	96.4
74748-10	80.6	
74748-11	72.9	76.8
74752-10	138.5	138.5
74766-13	106.9	
74766-13	86.1	96.5
74780-04	102.2	
74780-10	120.2	111.2
74791-13	79.1	79.1
74793-14	87.6	87.6
74795-09	102.9	
74795-10	104.3	
74795-13	105.7	104.3
74799-10	93.8	
74799-11	87.8	
74799-14	120.1	100.6
74801-14	121.3	121.3
74806-11	92.3	92.3
74820-12	100.6	100.6

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 MEAN LITTER BODY WEIGHTS [G]

FEMALES: 1000 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74821-09	97.2	
74821-07	109.1	103.2
74830-11	120.4	
74830-13	106.8	
74830-14	98.2	108.5
74831-12	116.6	
74831-16	104.0	
74831-18	103.0	107.9
74834-07	99.6	99.6
74847-09	103.4	103.4
74848-04	113.8	113.8
74849-07	99.3	
74849-10	92.8	
74849-12	103.1	98.4
74850-11	111.2	
74850-14	109.8	110.5
74855-11	117.7	117.7
74858-09	92.7	
74858-14	115.0	103.9
74868-20	88.5	88.5
74871-09	113.6	113.6
	MEAN	104.0
	S.D.	12.95
	N	27

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
MEAN LITTER BODY WEIGHTS [G]

FEMALES: 2500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74747-17	97.1	97.1
74751-10	107.9	
74751-12	99.9	
74751-13	119.4	109.1
74754-15	90.6	90.6
74755-01	115.9	
74755-09	114.2	
74755-11	115.1	115.1
74768-11	103.3	103.3
74769-08	108.1	108.1
74770-11	102.4	
74770-10	89.7	
74770-13	93.8	95.3
74786-10	109.6	
74786-11	114.9	112.3
74787-10	94.3	94.3
74792-11	102.3	
74792-12	105.3	103.8
74807-08	95.2	95.2
74811-13	137.1	137.1
74813-11	93.4	
74813-12	102.1	
74813-14	100.3	98.6

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TABLE 180 (F1 FEMALES - AT VAGINAL PATENCY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 MEAN LITTER BODY WEIGHTS [G]

FEMALES: 2500 PPM

ANIMAL NUMBER	BW (G)	LITTER MEAN (G)
74817-13	95.6	95.6
74822-06	105.5	
74822-08	124.7	
74822-11	106.4	112.2
74827-11	83.6	
74827-14	86.9	
74827-15	89.3	86.6
74832-07	97.9	97.9
74833-10	105.5	
74833-11	113.2	
74833-15	94.7	104.5
74836-12	126.9	
74836-11	106.7	116.8
74853-11	103.1	
74853-12	103.5	103.3
74857-14	111.0	
74857-09	112.1	111.6
74860-06	111.4	
74860-08	105.9	108.7
74862-13	128.9	128.9
74866-16	92.2	92.2
74870-03	129.2	129.2
	MEAN	105.9
	S.D.	12.68
	N	25

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TABLE 181 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74737-03	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74740-02	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74757-08	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74757-05	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74759-02	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74759-05	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74764-02	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74767-07	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74772-02	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	167
74772-08	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	167
74773-02	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74774-03	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74789-04	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	167
74804-04	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74808-01	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74810-07	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74810-02	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74826-05	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74829-05	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74840-02	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	171
74841-02	M	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74841-06	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74844-04	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	169
74845-01	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74845-03	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74854-06	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74854-02	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74864-06	M	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74867-03	M	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74867-01	M	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175

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TABLE 181 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74742-03	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74746-06	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74753-04	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74753-02	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74761-09	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74762-04	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	174
74790-09	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74782-04	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	177
74785-04	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74790-02	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74796-07	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74797-09	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74798-04	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74802-05	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74802-08	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74809-09	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74816-05	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74819-03	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74823-01	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74824-05	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74835-03	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74838-06	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	174
74839-02	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74846-03	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74856-06	M	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74859-06	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74861-02	M	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74863-05	M	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74863-02	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74869-02	M	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174

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TABLE 181 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74738-02	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74739-04	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74743-04	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74744-02	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	167
74748-05	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74748-02	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74752-05	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74766-02	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74780-03	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74791-05	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74791-02	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74793-05	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74795-06	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74799-03	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74801-10	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74806-06	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74806-03	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	177
74820-02	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74821-02	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74830-02	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74831-02	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74834-04	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74847-03	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74848-03	M	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74849-03	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74850-05	M	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74855-08	M	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74858-04	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74868-02	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74871-06	M	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172

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TABLE 181 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74747-04	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74747-03	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74751-05	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74751-02	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74754-09	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74755-05	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74768-02	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74769-07	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74770-06	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74786-05	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74786-07	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74787-06	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	174
74792-03	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74807-05	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74811-01	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74813-08	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74817-04	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74822-15	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74822-14	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74827-03	M	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74832-03	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74833-02	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74836-08	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74853-06	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74857-10	M	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74860-03	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74860-02	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74862-08	M	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74866-01	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74870-06	M	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173

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TABLE 182 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74737-14	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74737-10	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74740-07	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74757-11	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74759-09	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74764-10	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74767-16	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74767-10	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74772-09	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	170
74773-15	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74773-08	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74774-15	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74789-10	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	167
74789-09	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	168
74804-11	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74804-08	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74808-13	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74808-11	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74810-16	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74826-11	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74826-08	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74829-11	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74840-03	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	171
74841-12	F	0 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74844-05	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	172
74844-07	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	172
74845-07	F	0 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74854-08	F	0 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74864-15	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74867-07	F	0 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174

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TABLE 182 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74742-18	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74746-10	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74753-12	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74761-12	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74762-11	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74782-09	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	174
74785-08	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74790-15	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74790-14	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74796-15	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74797-12	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74798-13	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74798-12	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74802-10	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74809-08	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74816-12	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74819-10	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74823-12	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74824-11	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74835-11	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74835-07	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74838-11	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	177
74839-18	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74846-07	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74856-15	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74859-09	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74859-12	F	500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74861-05	F	500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74863-10	F	500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74869-04	F	500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176

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TABLE 182 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74738-07	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74738-12	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74739-08	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74743-08	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74744-16	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	170
74748-11	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74752-10	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74766-13	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74780-04	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74791-13	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74793-14	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74795-09	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74799-14	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74801-14	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74806-11	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	176
74820-12	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74821-09	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74821-07	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74830-11	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74831-12	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74834-07	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74847-09	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74848-04	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74849-07	F	1000 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74850-11	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74850-14	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175
74855-11	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74858-14	F	1000 PPM	SCHEDULED EUTHANASIA	31-MAY-02	173
74868-20	F	1000 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74871-09	F	1000 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172

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TABLE 182 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SURVIVAL AND DISPOSITION

ANIMAL	SEX	GROUP	TYPE OF DEATH	DATE OF DEATH	DAYS ON STUDY
74747-17	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74751-13	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74754-15	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74755-01	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74768-11	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74769-08	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74770-11	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	171
74770-10	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	172
74786-10	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74787-10	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	175
74792-11	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74792-12	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74807-08	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	173
74811-13	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	173
74813-12	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74817-13	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74822-08	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	171
74827-11	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	174
74832-07	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	174
74833-11	F	2500 PPM	SCHEDULED EUTHANASIA	29-MAY-02	172
74836-12	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	177
74836-11	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	177
74853-11	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74853-12	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	176
74857-14	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	174
74857-09	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	172
74860-08	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	173
74862-13	F	2500 PPM	SCHEDULED EUTHANASIA	28-MAY-02	170
74866-16	F	2500 PPM	SCHEDULED EUTHANASIA	30-MAY-02	175
74870-03	F	2500 PPM	SCHEDULED EUTHANASIA	31-MAY-02	175

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74737-03	M	0 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74740-02	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74757-08	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74757-08	M	0 PPM	EYES/EARS/NOSE	02-06-02	6:47	1	DRIED RED MATERIAL AROUND NOSE
				04-03-02	7:10	1	DRIED RED MATERIAL AROUND NOSE
				05-28-02	6:43	1	DRIED RED MATERIAL AROUND NOSE
				05-31-02	6:48	1	DRIED RED MATERIAL AROUND NOSE
74757-05	M	0 PPM	DISPOSITION	05-29-02	8:14	P	SCHEDULED EUTHANASIA
74757-05	M	0 PPM	EYES/EARS/NOSE	01-16-02	6:39	1	DRIED RED MATERIAL AROUND NOSE
				02-06-02	6:48	1	DRIED RED MATERIAL AROUND NOSE
				02-20-02	7:19	1	DRIED RED MATERIAL AROUND NOSE
				03-27-02	6:28	1	DRIED RED MATERIAL AROUND NOSE
				05-28-02	6:44	1	DRIED RED MATERIAL AROUND NOSE
74759-02	M	0 PPM	DISPOSITION	05-29-02	8:15	P	SCHEDULED EUTHANASIA
74759-05	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74764-02	M	0 PPM	DISPOSITION	05-29-02	8:15	P	SCHEDULED EUTHANASIA
74764-02	M	0 PPM	EYES/EARS/NOSE	05-01-02	6:34	2	DRIED RED MATERIAL AROUND LEFT EYE
74767-07	M	0 PPM	DISPOSITION	05-28-02	9:08	P	SCHEDULED EUTHANASIA
74772-02	M	0 PPM	DISPOSITION	05-28-02	9:09	P	SCHEDULED EUTHANASIA
74772-02	M	0 PPM	BODY/INTEGUMENT	03-20-02	6:39	1	HAIR LOSS RIGHT FORELIMB
				03-20-02	6:39	1	HAIR LOSS LEFT FORELIMB
				03-27-02	6:32	2	HAIR LOSS RIGHT FORELIMB
				03-27-02	6:32	2	HAIR LOSS LEFT FORELIMB
				04-03-02	7:10	2	HAIR LOSS RIGHT FORELIMB
				04-03-02	7:10	2	HAIR LOSS LEFT FORELIMB
				04-03-02	7:11	P	SCABBING RIGHT FORELIMB
				04-10-02	6:40	2	HAIR LOSS RIGHT FORELIMB
				04-10-02	6:40	3	HAIR LOSS LEFT FORELIMB
				04-17-02	6:38	3	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-02	M	0 PPM	BODY/INTEGUMENT	04-17-02	6:38	3	HAIR LOSS LEFT FORELIMB
				04-24-02	6:48	2	HAIR LOSS RIGHT FORELIMB
				04-24-02	6:49	2	HAIR LOSS LEFT FORELIMB
				05-01-02	6:35	3	HAIR LOSS RIGHT FORELIMB
				05-01-02	6:35	3	HAIR LOSS LEFT FORELIMB
				05-08-02	6:26	3	HAIR LOSS RIGHT FORELIMB
				05-08-02	6:26	3	HAIR LOSS LEFT FORELIMB
				05-15-02	6:28	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	6:28	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:23	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:23	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:24	1	HAIR LOSS VENTRAL NECK
				05-28-02	6:48	2	HAIR LOSS VENTRAL NECK
				05-28-02	6:49	3	HAIR LOSS RIGHT FORELIMB
				05-28-02	6:49	3	HAIR LOSS LEFT FORELIMB
74772-08	M	0 PPM	DISPOSITION	05-28-02	9:09	P	SCHEDULED EUTHANASIA
74772-08	M	0 PPM	EYES/EARS/NOSE	02-27-02	7:06	1	DRIED RED MATERIAL AROUND NOSE
74773-02	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74774-03	M	0 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74789-04	M	0 PPM	DISPOSITION	05-28-02	9:09	P	SCHEDULED EUTHANASIA
74804-04	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74804-04	M	0 PPM	BODY/INTEGUMENT	01-30-02	6:50	P	DISTAL END OF TAIL MISSING
				02-06-02	6:54	P	DISTAL END OF TAIL MISSING
				02-13-02	6:44	P	DISTAL END OF TAIL MISSING
				02-20-02	7:24	P	DISTAL END OF TAIL MISSING
				02-27-02	7:08	P	DISTAL END OF TAIL MISSING
				03-06-02	6:42	P	DISTAL END OF TAIL MISSING
				03-13-02	6:27	P	DISTAL END OF TAIL MISSING
				03-20-02	6:41	P	DISTAL END OF TAIL MISSING

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74804-04	M	0 PPM	BODY/INTEGUMENT	03-27-02	6:35	P	DISTAL END OF TAIL MISSING
				04-03-02	7:12	P	DISTAL END OF TAIL MISSING
				04-10-02	6:43	P	DISTAL END OF TAIL MISSING
				04-17-02	6:41	P	DISTAL END OF TAIL MISSING
				04-24-02	6:51	P	DISTAL END OF TAIL MISSING
				05-01-02	6:37	P	DISTAL END OF TAIL MISSING
				05-08-02	6:29	P	DISTAL END OF TAIL MISSING
				05-15-02	6:30	P	DISTAL END OF TAIL MISSING
				05-22-02	6:28	P	DISTAL END OF TAIL MISSING
				05-28-02	6:53	P	DISTAL END OF TAIL MISSING
				05-31-02	6:50	P	DISTAL END OF TAIL MISSING
74804-04	M	0 PPM	EYES/EARS/NOSE	02-13-02	6:44	1	DRIED RED MATERIAL AROUND NOSE
74808-01	M	0 PPM	DISPOSITION	05-29-02	8:15	P	SCHEDULED EUTHANASIA
74810-07	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74810-02	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74810-02	M	0 PPM	EYES/EARS/NOSE	02-06-02	6:56	1	DRIED RED MATERIAL AROUND NOSE
74810-02	M	0 PPM	EXCRETA	05-08-02	6:30	P	SOFT STOOL
74826-05	M	0 PPM	DISPOSITION	05-29-02	8:13	P	SCHEDULED EUTHANASIA
74829-05	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74840-02	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74841-02	M	0 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74841-06	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74844-04	M	0 PPM	DISPOSITION	05-28-02	9:09	P	SCHEDULED EUTHANASIA
74845-01	M	0 PPM	DISPOSITION	05-29-02	8:14	P	SCHEDULED EUTHANASIA
74845-03	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74854-06	M	0 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74854-06	M	0 PPM	EYES/EARS/NOSE	02-06-02	7:01	1	DRIED RED MATERIAL AROUND NOSE
74854-02	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74864-06	M	0 PPM	DISPOSITION	05-29-02	8:14	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74864-06	M	0 PPM	EYES/EARS/NOSE	02-06-02	7:02	1	DRIED RED MATERIAL AROUND NOSE
74867-03	M	0 PPM	DISPOSITION	05-28-02	9:09	P	SCHEDULED EUTHANASIA
74867-03	M	0 PPM	EYES/EARS/NOSE	05-28-02	7:04	1	DRIED RED MATERIAL AROUND NOSE
74867-01	M	0 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74742-03	M	500 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74746-06	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74746-06	M	500 PPM	EYES/EARS/NOSE	02-06-02	7:07	1	DRIED RED MATERIAL AROUND NOSE
				02-27-02	7:19	1	DRIED RED MATERIAL AROUND NOSE
74753-04	M	500 PPM	DISPOSITION	05-30-02	8:06	P	SCHEDULED EUTHANASIA
74753-04	M	500 PPM	EYES/EARS/NOSE	02-06-02	7:08	1	DRIED RED MATERIAL AROUND NOSE
74753-02	M	500 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74753-02	M	500 PPM	BODY/INTEGUMENT	03-27-02	6:48	1	HAIR LOSS RIGHT FORELIMB
				04-03-02	7:15	2	HAIR LOSS RIGHT FORELIMB
				04-10-02	6:56	1	HAIR LOSS RIGHT FORELIMB
				04-17-02	6:52	1	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:04	1	HAIR LOSS LEFT FORELIMB
				05-01-02	6:44	2	HAIR LOSS RIGHT FORELIMB
				05-08-02	6:40	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:34	2	HAIR LOSS RIGHT FORELIMB
				05-28-02	7:09	1	HAIR LOSS RIGHT FORELIMB
				05-30-02	6:51	2	HAIR LOSS RIGHT FORELIMB
74761-09	M	500 PPM	DISPOSITION	05-29-02	8:18	P	SCHEDULED EUTHANASIA
74762-04	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74790-09	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74790-09	M	500 PPM	EYES/EARS/NOSE	02-06-02	7:11	1	DRIED RED MATERIAL AROUND NOSE
74782-04	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74782-04	M	500 PPM	EYES/EARS/NOSE	02-06-02	7:12	1	DRIED RED MATERIAL AROUND NOSE
74785-04	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74790-02	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796-07	M	500 PPM	DISPOSITION	05-29-02	8:16	P	SCHEDULED EUTHANASIA
74797-09	M	500 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74798-04	M	500 PPM	DISPOSITION	05-29-02	8:17	P	SCHEDULED EUTHANASIA
74802-05	M	500 PPM	DISPOSITION	05-29-02	8:18	P	SCHEDULED EUTHANASIA
74802-08	M	500 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74802-08	M	500 PPM	EYES/EARS/NOSE	04-03-02	7:18	1	HAIR LOSS DORSAL NOSE
74809-09	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74809-09	M	500 PPM	EYES/EARS/NOSE	02-13-02	7:13	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-27-02	7:25	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-06-02	6:56	2	DRIED RED MATERIAL AROUND RIGHT EYE
				03-13-02	6:45	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	6:57	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-27-02	6:58	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-03-02	7:19	2	DRIED RED MATERIAL AROUND RIGHT EYE
				04-10-02	7:08	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-17-02	6:59	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-24-02	7:11	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-01-02	6:49	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-08-02	6:45	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-15-02	6:48	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-22-02	6:40	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	7:16	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-31-02	6:52	2	DRIED RED MATERIAL AROUND RIGHT EYE
74809-09	M	500 PPM	EXCRETA	05-08-02	6:45	P	SOFT STOOL
				05-15-02	6:48	P	SOFT STOOL
				05-22-02	6:40	P	SOFT STOOL
74809-09	M	500 PPM	ORAL/DENTAL	03-13-02	6:45	P	TEETH LONG, TRIMMED
				04-03-02	7:19	P	TEETH LONG, TRIMMED
				04-10-02	7:06	P	UPPER INCISORS MALALIGNED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74809-09	M	500 PPM	ORAL/DENTAL	04-10-02	7:06	P	TEETH LONG, TRIMMED
				04-24-02	7:12	P	TEETH LONG, TRIMMED
				05-01-02	6:49	P	TEETH LONG, TRIMMED
				05-01-02	6:49	P	UPPER INCISORS MALALIGNED
				05-08-02	6:45	P	TEETH LONG, TRIMMED
				05-22-02	6:40	P	UPPER INCISORS MALALIGNED
74816-05	M	500 PPM	DISPOSITION	05-29-02	8:17	P	SCHEDULED EUTHANASIA
74816-05	M	500 PPM	EXCRETA	05-15-02	6:49	P	SOFT STOOL
74819-03	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74823-01	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74824-05	M	500 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74824-05	M	500 PPM	EYES/EARS/NOSE	03-06-02	6:58	1	DRIED RED MATERIAL AROUND NOSE
				04-03-02	7:20	1	DRIED RED MATERIAL AROUND NOSE
74835-03	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74838-06	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74839-02	M	500 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74846-03	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74856-06	M	500 PPM	DISPOSITION	05-28-02	9:11	P	SCHEDULED EUTHANASIA
74859-06	M	500 PPM	DISPOSITION	05-29-02	8:16	P	SCHEDULED EUTHANASIA
74861-02	M	500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74863-05	M	500 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74863-02	M	500 PPM	DISPOSITION	05-29-02	8:16	P	SCHEDULED EUTHANASIA
74869-02	M	500 PPM	DISPOSITION	05-29-02	8:18	P	SCHEDULED EUTHANASIA
74869-02	M	500 PPM	BODY/INTEGUMENT	05-15-02	6:53	1	HAIR LOSS RIGHT FORELIMB
				05-29-02	7:11	1	HAIR LOSS RIGHT FORELIMB
74738-02	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74739-04	M	1000 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74743-04	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74743-04	M	1000 PPM	EYES/EARS/NOSE	02-13-02	7:28	1	DRIED RED MATERIAL AROUND NOSE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-02	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74748-05	M	1000 PPM	DISPOSITION	05-29-02	8:20	P	SCHEDULED EUTHANASIA
74748-02	M	1000 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74748-02	M	1000 PPM	ORAL/DENTAL	03-06-02	7:07	P	UPPER INCISORS MALALIGNED
				03-13-02	6:58	P	UPPER INCISORS MALALIGNED
				03-20-02	7:10	P	UPPER INCISORS MALALIGNED
				03-20-02	7:10	P	TEETH LONG, TRIMMED
74752-05	M	1000 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74752-05	M	1000 PPM	BODY/INTEGUMENT	01-16-02	6:57	1	DRIED BROWN MATERIAL ANOGENITAL AREA
74752-05	M	1000 PPM	EXCRETA	05-08-02	6:55	P	SOFT STOOL
				05-15-02	6:56	P	SOFT STOOL
74766-02	M	1000 PPM	DISPOSITION	05-29-02	8:21	P	SCHEDULED EUTHANASIA
74766-02	M	1000 PPM	BODY/INTEGUMENT	03-13-02	7:00	1	HAIR LOSS RIGHT FORELIMB
				03-13-02	7:00	1	HAIR LOSS LEFT FORELIMB
				03-20-02	7:11	1	HAIR LOSS RIGHT FORELIMB
				03-20-02	7:11	1	HAIR LOSS LEFT FORELIMB
				03-27-02	7:13	1	HAIR LOSS RIGHT FORELIMB
				03-27-02	7:13	1	HAIR LOSS LEFT FORELIMB
74766-02	M	1000 PPM	EYES/EARS/NOSE	01-30-02	7:14	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-06-02	7:29	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-06-02	7:29	1	DRIED RED MATERIAL AROUND NOSE
				02-13-02	7:31	1	DRIED RED MATERIAL AROUND NOSE
				02-13-02	7:32	2	DRIED RED MATERIAL AROUND RIGHT EYE
				02-13-02	7:32	2	DRIED RED MATERIAL AROUND LEFT EYE
				02-20-02	7:50	1	DRIED RED MATERIAL AROUND LEFT EYE
				02-27-02	7:33	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-27-02	7:33	1	DRIED RED MATERIAL AROUND LEFT EYE
				03-06-02	7:10	2	DRIED RED MATERIAL AROUND RIGHT EYE
				03-06-02	7:10	2	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74766-02	M	1000 PPM	EYES/EARS/NOSE	03-13-02	7:00	2	DRIED RED MATERIAL AROUND RIGHT EYE
				03-13-02	7:00	2	DRIED RED MATERIAL AROUND LEFT EYE
				03-20-02	7:12	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	7:12	1	DRIED RED MATERIAL AROUND LEFT EYE
				03-27-02	7:13	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-27-02	7:13	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-03-02	7:24	2	DRIED RED MATERIAL AROUND RIGHT EYE
				04-03-02	7:24	2	DRIED RED MATERIAL AROUND LEFT EYE
				04-10-02	7:25	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-10-02	7:25	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-17-02	7:16	2	DRIED RED MATERIAL AROUND RIGHT EYE
				04-17-02	7:16	2	DRIED RED MATERIAL AROUND LEFT EYE
				04-24-02	7:26	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-24-02	7:26	1	DRIED RED MATERIAL AROUND LEFT EYE
				05-01-02	6:57	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-01-02	6:57	3	DRIED RED MATERIAL AROUND LEFT EYE
				05-01-02	6:57	1	DRIED RED MATERIAL AROUND NOSE
				01-23-02	14:52	P	NOSE APPEARS SWOLLEN
				01-24-02	0:00	P	NOSE APPEARS SWOLLEN
				01-23-02	14:52	P	MECHANICAL INJURY, GASPING FOR AIR, RED WET MATERIAL DISCHARGES THROUGH THE NOSE
				05-08-02	6:55	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-08-02	6:55	3	DRIED RED MATERIAL AROUND LEFT EYE
				05-15-02	6:57	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-15-02	6:57	3	DRIED RED MATERIAL AROUND LEFT EYE
				05-22-02	6:51	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	7:35	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	7:35	1	DRIED RED MATERIAL AROUND LEFT EYE
				05-29-02	7:29	2	DRIED RED MATERIAL AROUND RIGHT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74766-02	M	1000 PPM	EYES/EARS/NOSE	05-29-02	7:29	2	DRIED RED MATERIAL AROUND LEFT EYE
74766-02	M	1000 PPM	ORAL/DENTAL	01-30-02	7:14	P	UPPER INCISORS MALALIGNED
				02-06-02	7:29	P	UPPER INCISORS MALALIGNED
				02-27-02	7:33	P	UPPER INCISORS MALALIGNED
				03-06-02	7:10	P	TEETH LONG, TRIMMED
				03-20-02	7:12	P	UPPER INCISORS MALALIGNED
				03-27-02	7:14	P	TEETH LONG, TRIMMED
				04-03-02	7:24	P	TEETH LONG, TRIMMED
				04-10-02	7:24	P	TEETH LONG, TRIMMED
				04-17-02	7:16	P	TEETH LONG, TRIMMED
				04-24-02	7:27	P	TEETH LONG, TRIMMED
				05-01-02	6:57	P	UPPER INCISORS MALALIGNED
				05-01-02	6:57	P	TEETH LONG, TRIMMED
				05-22-02	6:51	P	UPPER INCISORS MALALIGNED
				05-28-02	7:36	P	UPPER INCISORS MALALIGNED
				05-29-02	7:29	P	UPPER INCISORS MALALIGNED
74780-03	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74780-03	M	1000 PPM	EYES/EARS/NOSE	03-20-02	7:14	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-03-02	7:24	1	DRIED RED MATERIAL AROUND LEFT EYE
74780-03	M	1000 PPM	EXCRETA	03-20-02	7:14	P	SOFT STOOL
74780-03	M	1000 PPM	ORAL/DENTAL	03-20-02	7:13	P	UPPER INCISORS MALALIGNED
				03-27-02	7:15	P	UPPER INCISORS MALALIGNED
				04-03-02	7:24	P	UPPER INCISORS MALALIGNED
				04-10-02	7:26	P	UPPER INCISORS MALALIGNED
				04-17-02	7:17	P	UPPER INCISORS MALALIGNED
74791-05	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74791-02	M	1000 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74791-02	M	1000 PPM	EXCRETA	05-01-02	6:59	P	SOFT STOOL
74793-05	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74793-05	M	1000 PPM	EYES/EARS/NOSE	03-20-02	7:16	1	DRIED RED MATERIAL AROUND NOSE
74795-06	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74799-03	M	1000 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74799-03	M	1000 PPM	EXCRETA	05-08-02	6:58	P	SOFT STOOL
74801-10	M	1000 PPM	DISPOSITION	05-29-02	8:19	P	SCHEDULED EUTHANASIA
74806-06	M	1000 PPM	DISPOSITION	05-29-02	8:19	P	SCHEDULED EUTHANASIA
74806-03	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74820-02	M	1000 PPM	DISPOSITION	05-30-02	8:07	P	SCHEDULED EUTHANASIA
74820-02	M	1000 PPM	BODY/INTEGUMENT	04-03-02	7:26	1	DRIED MATERIAL DORSAL HEAD
74821-02	M	1000 PPM	DISPOSITION	05-29-02	8:19	P	SCHEDULED EUTHANASIA
74821-02	M	1000 PPM	BODY/INTEGUMENT	04-03-02	7:27	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:02	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:02	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:55	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:55	2	HAIR LOSS LEFT FORELIMB
				05-28-02	7:44	1	HAIR LOSS RIGHT FORELIMB
				05-28-02	7:44	1	HAIR LOSS LEFT FORELIMB
				05-29-02	7:06	3	HAIR LOSS RIGHT FORELIMB
				05-29-02	7:06	3	HAIR LOSS LEFT FORELIMB
74821-02	M	1000 PPM	EYES/EARS/NOSE	04-03-02	7:27	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-10-02	7:34	1	DRIED RED MATERIAL AROUND LEFT EYE
74821-02	M	1000 PPM	ORAL/DENTAL	04-03-02	7:27	P	UPPER INCISORS MALALIGNED
				04-10-02	7:34	P	UPPER INCISORS MALALIGNED
				04-17-02	7:21	P	UPPER INCISORS MALALIGNED
74830-02	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74830-02	M	1000 PPM	EXCRETA	05-01-02	7:02	P	SOFT STOOL
74831-02	M	1000 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA
74831-02	M	1000 PPM	EYES/EARS/NOSE	02-20-02	7:56	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-20-02	7:56	1	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-02	M	1000 PPM	EYES/EARS/NOSE	03-06-02	7:17	2	DRIED RED MATERIAL AROUND RIGHT EYE
				03-06-02	7:18	2	DRIED RED MATERIAL AROUND LEFT EYE
				03-13-02	7:08	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	7:23	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	7:23	1	DRIED RED MATERIAL AROUND LEFT EYE
				03-27-02	7:22	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-27-02	7:22	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-03-02	7:28	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-03-02	7:28	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-10-02	7:38	1	DRIED RED MATERIAL AROUND LEFT EYE
				04-10-02	7:38	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-17-02	7:24	2	DRIED RED MATERIAL AROUND RIGHT EYE
				04-17-02	7:24	2	DRIED RED MATERIAL AROUND LEFT EYE
				04-24-02	7:38	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-24-02	7:38	1	DRIED RED MATERIAL AROUND LEFT EYE
				05-01-02	7:03	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-01-02	7:03	2	DRIED RED MATERIAL AROUND LEFT EYE
				02-14-02	14:55	P	NOSE DEVIATED TOWARDS LEFT, RED WET DISCHARGE BOTH NOSTRILS
				05-08-02	7:01	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-08-02	7:02	3	DRIED RED MATERIAL AROUND LEFT EYE
				05-15-02	7:03	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-15-02	7:03	2	DRIED RED MATERIAL AROUND LEFT EYE
				05-22-02	6:56	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-22-02	6:56	3	DRIED RED MATERIAL AROUND LEFT EYE
				05-28-02	7:47	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	7:47	1	DRIED RED MATERIAL AROUND LEFT EYE
				05-30-02	6:55	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-30-02	6:55	1	DRIED RED MATERIAL AROUND LEFT EYE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-02	M	1000 PPM	ORAL/DENTAL	03-06-02	7:17	P	TEETH LONG, TRIMMED
				03-06-02	7:17	P	UPPER INCISORS MALALIGNED
				03-13-02	7:08	P	UPPER INCISORS MALALIGNED
				03-20-02	7:23	P	UPPER INCISORS MALALIGNED
				03-20-02	7:23	P	TEETH LONG, TRIMMED
				03-27-02	7:23	P	UPPER INCISORS MALALIGNED
				04-03-02	7:28	P	UPPER INCISORS MALALIGNED
				04-03-02	7:28	P	TEETH LONG, TRIMMED
				04-10-02	7:38	P	UPPER INCISORS MALALIGNED
				04-10-02	7:38	P	TEETH LONG, TRIMMED
				04-17-02	7:24	P	UPPER INCISORS MALALIGNED
				04-17-02	7:24	P	TEETH LONG, TRIMMED
				04-24-02	7:37	P	UPPER INCISORS MALALIGNED
				04-24-02	7:37	P	TEETH LONG, TRIMMED
				05-01-02	7:03	P	UPPER INCISORS MALALIGNED
				05-01-02	7:03	P	TEETH LONG, TRIMMED
				05-08-02	7:02	P	UPPER INCISORS MALALIGNED
				05-08-02	7:02	P	TEETH LONG, TRIMMED
				05-15-02	7:03	P	UPPER INCISORS MALALIGNED
				05-15-02	7:03	P	TEETH LONG, TRIMMED
				05-22-02	6:56	P	UPPER INCISORS MALALIGNED
				05-22-02	6:56	P	TEETH LONG, TRIMMED
				05-28-02	7:47	P	TEETH LONG, TRIMMED
74834-04	M	1000 PPM	DISPOSITION	05-29-02	8:20	P	SCHEDULED EUTHANASIA
74847-03	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74847-03	M	1000 PPM	EXCRETA	03-06-02	7:19	P	SOFT STOOL
74848-03	M	1000 PPM	DISPOSITION	05-29-02	8:20	P	SCHEDULED EUTHANASIA
74849-03	M	1000 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA
74850-05	M	1000 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-08	M	1000 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74855-08	M	1000 PPM	BODY/INTEGUMENT	02-13-02	7:43	P	SCABBING RIGHT SHOULDER AREA
				02-20-02	7:59	P	SCABBING RIGHT SHOULDER AREA
				02-27-02	7:41	P	SCABBING RIGHT SHOULDER AREA
				03-06-02	7:21	P	SCABBING RIGHT SHOULDER AREA
				02-10-02	15:07	P	SCABBING RIGHT SHOULDER AREA
74858-04	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74858-04	M	1000 PPM	EXCRETA	05-28-02	7:54	P	SOFT STOOL
74868-02	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74868-02	M	1000 PPM	EYES/EARS/NOSE	01-16-02	7:02	1	DRIED RED MATERIAL AROUND NOSE
				01-23-02	7:20	1	DRIED RED MATERIAL AROUND NOSE
74871-06	M	1000 PPM	DISPOSITION	05-28-02	9:12	P	SCHEDULED EUTHANASIA
74871-06	M	1000 PPM	EYES/EARS/NOSE	02-20-02	8:00	1	DRIED RED MATERIAL AROUND RIGHT EYE
74747-04	M	2500 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA
74747-03	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74751-05	M	2500 PPM	DISPOSITION	05-29-02	8:22	P	SCHEDULED EUTHANASIA
74751-02	M	2500 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA
74754-09	M	2500 PPM	DISPOSITION	05-30-02	8:08	P	SCHEDULED EUTHANASIA
74755-05	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74768-02	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74768-02	M	2500 PPM	EXCRETA	05-15-02	7:09	P	SOFT STOOL
74769-07	M	2500 PPM	DISPOSITION	05-30-02	8:09	P	SCHEDULED EUTHANASIA
74769-07	M	2500 PPM	EYES/EARS/NOSE	01-23-02	7:24	1	DRIED RED MATERIAL AROUND NOSE
				03-27-02	7:33	1	DRIED RED MATERIAL AROUND NOSE
74769-07	M	2500 PPM	EXCRETA	05-08-02	7:09	P	SOFT STOOL
74770-06	M	2500 PPM	DISPOSITION	05-30-02	8:09	P	SCHEDULED EUTHANASIA
74770-06	M	2500 PPM	EXCRETA	05-01-02	7:11	P	SOFT STOOL
74786-05	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74786-05	M	2500 PPM	EYES/EARS/NOSE	04-03-02	7:31	1	DRIED RED MATERIAL AROUND NOSE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-07	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74786-07	M	2500 PPM	EYES/EARS/NOSE	02-13-02	7:51	1	DRIED RED MATERIAL AROUND NOSE
				05-15-02	7:10	1	DRIED RED MATERIAL AROUND NOSE
				05-28-02	8:25	1	DRIED RED MATERIAL AROUND NOSE
74787-06	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74787-06	M	2500 PPM	BODY/INTEGUMENT	04-03-02	7:32	1	HAIR LOSS LEFT FORELIMB
				04-03-02	7:32	1	HAIR LOSS RIGHT FORELIMB
74787-06	M	2500 PPM	EYES/EARS/NOSE	04-03-02	7:32	1	DRIED RED MATERIAL DORSAL NOSE
				05-01-02	7:12	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-08-02	7:10	3	DRIED RED MATERIAL AROUND RIGHT EYE
				05-15-02	7:12	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-22-02	7:08	2	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	8:27	1	DRIED RED MATERIAL AROUND RIGHT EYE
74787-06	M	2500 PPM	EXCRETA	05-22-02	7:08	P	SOFT STOOL
74787-06	M	2500 PPM	ORAL/DENTAL	05-01-02	7:12	P	UPPER INCISORS MALALIGNED
				05-08-02	7:10	P	UPPER INCISORS MALALIGNED
				05-15-02	7:12	P	UPPER INCISORS MALALIGNED
				05-15-02	7:12	P	TEETH LONG, TRIMMED
				05-22-02	7:07	P	TEETH LONG, TRIMMED
				04-30-02	0:00	P	UPPER INCISORS AVULSED ROSTRALLY
				04-30-02	0:00	P	MAXILLARY AREA SLIGHTLY SWOLLEN
74792-03	M	2500 PPM	DISPOSITION	05-29-02	8:23	P	SCHEDULED EUTHANASIA
74807-05	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74811-01	M	2500 PPM	DISPOSITION	05-29-02	8:22	P	SCHEDULED EUTHANASIA
74811-01	M	2500 PPM	EXCRETA	05-29-02	6:59	P	SOFT STOOL
74813-08	M	2500 PPM	DISPOSITION	05-30-02	8:09	P	SCHEDULED EUTHANASIA
74817-04	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74822-15	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74822-14	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74827-03	M	2500 PPM	DISPOSITION	05-28-02	9:13	P	SCHEDULED EUTHANASIA
74832-03	M	2500 PPM	DISPOSITION	05-29-02	8:24	P	SCHEDULED EUTHANASIA
74832-03	M	2500 PPM	EXCRETA	05-15-02	7:16	P	SOFT STOOL
74833-02	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74836-08	M	2500 PPM	DISPOSITION	05-29-02	8:22	P	SCHEDULED EUTHANASIA
74836-08	M	2500 PPM	BODY/INTEGUMENT	02-06-02	7:53	P	SCABBING LEFT LATERAL THORACIC AREA
				02-06-02	7:53	P	SCABBING RIGHT LATERAL NECK
				02-06-02	7:53	2	HAIR LOSS RIGHT LATERAL THORACIC AREA
				02-20-02	8:09	2	HAIR LOSS LEFT SHOULDER AREA
74853-06	M	2500 PPM	DISPOSITION	05-29-02	8:23	P	SCHEDULED EUTHANASIA
74853-06	M	2500 PPM	EYES/EARS/NOSE	05-15-02	7:19	P	RIGHT EAR APPEARS RED AND SWOLLEN
				05-15-02	7:19	P	LEFT EAR APPEARS RED AND SWOLLEN
				05-22-02	7:12	P	RIGHT EAR APPEARS RED AND SWOLLEN
				05-22-02	7:12	P	LEFT EAR APPEARS RED AND SWOLLEN
				05-28-02	8:35	P	LEFT EAR APPEARS RED AND SWOLLEN
				05-29-02	7:01	P	RIGHT EAR APPEARS RED AND SWOLLEN
				05-29-02	7:01	P	LEFT EAR APPEARS RED AND SWOLLEN
74853-06	M	2500 PPM	EXCRETA	05-08-02	7:16	P	SOFT STOOL
74857-10	M	2500 PPM	DISPOSITION	05-30-02	8:09	P	SCHEDULED EUTHANASIA
74860-03	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74860-03	M	2500 PPM	BODY/INTEGUMENT	03-13-02	7:32	1	HAIR LOSS RIGHT FORELIMB
				03-13-02	7:32	1	HAIR LOSS LEFT FORELIMB
				03-27-02	7:44	1	HAIR LOSS RIGHT FORELIMB
				03-27-02	7:44	1	HAIR LOSS LEFT FORELIMB
				04-03-02	7:35	1	HAIR LOSS RIGHT FORELIMB
				04-03-02	7:35	1	HAIR LOSS LEFT FORELIMB
				04-10-02	7:59	1	HAIR LOSS RIGHT FORELIMB
				04-10-02	7:59	1	HAIR LOSS LEFT FORELIMB
				04-17-02	7:42	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 183 (F1 MALES - DETAILED PHYSICAL EXAMINATIONS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74860-03	M	2500 PPM	BODY/INTEGUMENT	04-17-02	7:42	1	HAIR LOSS LEFT FORELIMB
				04-24-02	7:57	1	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:57	1	HAIR LOSS LEFT FORELIMB
74860-03	M	2500 PPM	EYES/EARS/NOSE	04-24-02	7:57	1	DRIED RED MATERIAL AROUND NOSE
74860-02	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74862-08	M	2500 PPM	DISPOSITION	05-31-02	7:19	P	SCHEDULED EUTHANASIA
74866-01	M	2500 PPM	DISPOSITION	05-29-02	8:24	P	SCHEDULED EUTHANASIA
74870-06	M	2500 PPM	DISPOSITION	05-29-02	8:23	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74737-14	F	0 PPM	DISPOSITION	05-28-02	9:23	P	SCHEDULED EUTHANASIA
74737-14	F	0 PPM	BODY/INTEGUMENT	05-15-02	6:30	1	HAIR LOSS RIGHT FORELIMB
74737-14	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74737-10	F	0 PPM	DISPOSITION	05-28-02	9:15	P	SCHEDULED EUTHANASIA
74737-10	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74740-07	F	0 PPM	DISPOSITION	05-29-02	8:27	P	SCHEDULED EUTHANASIA
74740-07	F	0 PPM	EYES/EARS/NOSE	02-13-02	6:21	2	DRIED RED MATERIAL AROUND RIGHT EYE
				02-20-02	6:24	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-20-02	6:25	1	DRIED RED MATERIAL AROUND NOSE
				02-27-02	6:34	1	DRIED RED MATERIAL AROUND RIGHT EYE
				02-27-02	6:34	1	DRIED RED MATERIAL AROUND NOSE
				03-06-02	6:28	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-13-02	7:34	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	7:14	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-27-02	6:55	2	DRIED RED MATERIAL AROUND RIGHT EYE
				04-10-02	7:14	1	DRIED RED MATERIAL AROUND RIGHT EYE
				04-24-02	7:03	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-08-02	7:08	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-15-02	6:32	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-22-02	6:32	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-28-02	6:40	1	DRIED RED MATERIAL AROUND RIGHT EYE
				05-29-02	7:19	1	DRIED RED MATERIAL AROUND RIGHT EYE
74740-07	F	0 PPM	ORAL/DENTAL	02-13-02	6:26	P	TEETH LONG, TRIMMED
				04-10-02	7:14	P	TEETH LONG, TRIMMED
				05-08-02	7:07	P	TEETH LONG, TRIMMED
				05-22-02	6:32	P	TEETH LONG, TRIMMED
				05-28-02	6:41	P	TEETH LONG, TRIMMED

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74757-11	F	0 PPM	DISPOSITION	05-30-02	8:02	P	SCHEDULED EUTHANASIA
74757-11	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74759-09	F	0 PPM	DISPOSITION	05-30-02	8:02	P	SCHEDULED EUTHANASIA
74759-09	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74764-10	F	0 PPM	DISPOSITION	05-30-02	8:02	P	SCHEDULED EUTHANASIA
74764-10	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74767-16	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74767-16	F	0 PPM	BODY/INTEGUMENT	04-24-02	7:05	1	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:06	1	HAIR LOSS RIGHT HINDLIMB
				05-01-02	7:09	1	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:09	1	HAIR LOSS LEFT FORELIMB
				05-01-02	7:10	1	HAIR LOSS RIGHT HINDLIMB
				05-08-02	7:08	2	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:08	2	HAIR LOSS LEFT FORELIMB
				05-15-02	6:35	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	6:35	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:38	1	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:38	1	HAIR LOSS LEFT FORELIMB
74767-16	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74767-10	F	0 PPM	DISPOSITION	05-29-02	8:27	P	SCHEDULED EUTHANASIA
74767-10	F	0 PPM	EYES/EARS/NOSE	04-03-02	7:42	1	DRIED RED MATERIAL AROUND NOSE
74767-10	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74772-09	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-09	F	0 PPM	BODY/INTEGUMENT	04-10-02	7:16	1	HAIR LOSS RIGHT FORELIMB
74772-09	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74773-15	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74773-15	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74773-08	F	0 PPM	DISPOSITION	05-28-02	9:23	P	SCHEDULED EUTHANASIA
74773-08	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74774-15	F	0 PPM	DISPOSITION	05-30-02	8:02	P	SCHEDULED EUTHANASIA
74774-15	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74789-10	F	0 PPM	DISPOSITION	05-28-02	9:15	P	SCHEDULED EUTHANASIA
74789-10	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74789-09	F	0 PPM	DISPOSITION	05-29-02	8:26	P	SCHEDULED EUTHANASIA
74789-09	F	0 PPM	BODY/INTEGUMENT	04-24-02	7:13	1	WET RED MATERIAL ANOGENITAL AREA
74789-09	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74804-11	F	0 PPM	DISPOSITION	05-30-02	8:02	P	SCHEDULED EUTHANASIA
74804-11	F	0 PPM	BODY/INTEGUMENT	02-20-02	6:33	1	HAIR LOSS RIGHT FORELIMB
74804-11	F	0 PPM	SPECIAL II	02-27-02	6:39	1	HAIR LOSS RIGHT FORELIMB
74804-11	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74804-08	F	0 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74804-08	F	0 PPM	BODY/INTEGUMENT	04-24-02	7:15	1	HAIR LOSS RIGHT FORELIMB
74804-08	F	0 PPM	SPECIAL II	04-24-02	7:16	1	HAIR LOSS LEFT FORELIMB
74804-08	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74808-13	F	0 PPM	DISPOSITION	05-29-02	8:27	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-13	F	0 PPM	BODY/INTEGUMENT	05-01-02	7:13	2	HAIR LOSS LEFT FORELIMB
				05-08-02	7:11	2	HAIR LOSS LEFT FORELIMB
				05-15-02	6:44	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:44	2	HAIR LOSS LEFT FORELIMB
				05-28-02	6:51	1	HAIR LOSS LEFT FORELIMB
				05-29-02	7:22	1	HAIR LOSS LEFT FORELIMB
74808-13	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74808-11	F	0 PPM	DISPOSITION	05-28-02	9:15	P	SCHEDULED EUTHANASIA
74808-11	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74810-16	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74810-16	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74826-11	F	0 PPM	DISPOSITION	05-28-02	9:15	P	SCHEDULED EUTHANASIA
74826-11	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74826-08	F	0 PPM	DISPOSITION	05-28-02	9:15	P	SCHEDULED EUTHANASIA
74826-08	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74829-11	F	0 PPM	DISPOSITION	05-29-02	8:26	P	SCHEDULED EUTHANASIA
74829-11	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74840-03	F	0 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74840-03	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74841-12	F	0 PPM	DISPOSITION	05-28-02	9:14	P	SCHEDULED EUTHANASIA
74841-12	F	0 PPM	BODY/INTEGUMENT	04-10-02	7:19	1	HAIR LOSS RIGHT FORELIMB
				04-17-02	6:46	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74841-12	F	0 PPM	BODY/INTEGUMENT	04-17-02	6:46	2	HAIR LOSS LEFT FORELIMB
				04-24-02	7:20	2	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:20	2	HAIR LOSS LEFT FORELIMB
				05-01-02	7:16	2	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:16	2	HAIR LOSS LEFT FORELIMB
				05-01-02	7:16	P	SCABBING LEFT FORELIMB
				05-01-02	7:16	P	SCABBING RIGHT FORELIMB
				05-08-02	7:14	2	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:14	2	HAIR LOSS LEFT FORELIMB
				05-15-02	6:49	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	6:49	2	HAIR LOSS LEFT FORELIMB
				05-22-02	6:48	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:48	2	HAIR LOSS LEFT FORELIMB
				05-28-02	6:56	2	HAIR LOSS RIGHT FORELIMB
				05-28-02	6:56	2	HAIR LOSS LEFT FORELIMB
74841-12	F	0 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74844-05	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74844-05	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74844-07	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74844-07	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74845-07	F	0 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74845-07	F	0 PPM	BODY/INTEGUMENT	03-13-02	7:43	1	HAIR LOSS LEFT FORELIMB
				04-03-02	7:49	1	HAIR LOSS LEFT FORELIMB
				04-10-02	7:20	1	HAIR LOSS LEFT FORELIMB
				04-17-02	6:47	1	HAIR LOSS LEFT FORELIMB
				04-24-02	7:21	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BODY/INTEGUMENT	04-24-02	7:21	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:15	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:15	1	HAIR LOSS LEFT FORELIMB
				05-15-02	6:50	1	HAIR LOSS LEFT FORELIMB
				05-22-02	6:50	1	HAIR LOSS LEFT FORELIMB
				05-28-02	6:59	1	HAIR LOSS LEFT FORELIMB
				05-30-02	7:09	1	HAIR LOSS LEFT FORELIMB
74845-07	F	0 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74854-08	F	0 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74854-08	F	0 PPM	EYES/EARS/NOSE	03-20-02	7:24	1	DRIED RED MATERIAL AROUND RIGHT EYE
				03-20-02	7:24	1	DRIED RED MATERIAL AROUND LEFT EYE
74854-08	F	0 PPM	ORAL/DENTAL	03-20-02	7:24	P	UPPER INCISORS MALALIGNED
74854-08	F	0 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74864-15	F	0 PPM	DISPOSITION	05-29-02	8:26	P	SCHEDULED EUTHANASIA
74864-15	F	0 PPM	BODY/INTEGUMENT	04-03-02	7:52	1	DRIED RED MATERIAL DORSAL HEAD
74864-15	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74867-07	F	0 PPM	DISPOSITION	05-29-02	8:26	P	SCHEDULED EUTHANASIA
74867-07	F	0 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74742-18	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74742-18	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74746-10	F	500 PPM	DISPOSITION	05-29-02	8:29	P	SCHEDULED EUTHANASIA
74746-10	F	500 PPM	BODY/INTEGUMENT	02-13-02	6:46	P	SCABBING DORSAL THORACIC AREA
				02-13-02	6:46	1	HAIR LOSS DORSAL THORACIC AREA
				02-20-02	6:47	1	HAIR LOSS DORSAL THORACIC AREA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74746-10	F	500 PPM	BODY/INTEGUMENT	02-20-02	6:47	P	SCABBING DORSAL THORACIC AREA
74746-10	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74753-12	F	500 PPM	DISPOSITION	05-31-02	7:17	P	SCHEDULED EUTHANASIA
74753-12	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74761-12	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74761-12	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74762-11	F	500 PPM	DISPOSITION	05-29-02	8:30	P	SCHEDULED EUTHANASIA
74762-11	F	500 PPM	EYES/EARS/NOSE	04-24-02	7:27	1	DRIED RED MATERIAL AROUND NOSE
74762-11	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74782-09	F	500 PPM	DISPOSITION	05-28-02	9:24	P	SCHEDULED EUTHANASIA
74782-09	F	500 PPM	BODY/INTEGUMENT	01-16-02	7:03	P	DISTAL END OF TAIL MISSING
				01-23-02	6:40	P	DISTAL END OF TAIL MISSING
				01-30-02	6:49	P	DISTAL END OF TAIL MISSING
				02-06-02	7:00	P	DISTAL END OF TAIL MISSING
				02-13-02	6:51	P	DISTAL END OF TAIL MISSING
				02-20-02	6:49	P	DISTAL END OF TAIL MISSING
				02-27-02	6:50	P	DISTAL END OF TAIL MISSING
				03-06-02	6:45	P	DISTAL END OF TAIL MISSING
				03-13-02	7:49	P	DISTAL END OF TAIL MISSING
				03-20-02	7:29	P	DISTAL END OF TAIL MISSING
				03-27-02	7:09	P	DISTAL END OF TAIL MISSING
				04-03-02	7:54	P	DISTAL END OF TAIL MISSING
				04-10-02	7:21	P	DISTAL END OF TAIL MISSING
				04-17-02	6:50	P	DISTAL END OF TAIL MISSING
				04-24-02	7:27	P	DISTAL END OF TAIL MISSING

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782-09	F	500 PPM	BODY/INTEGUMENT	05-01-02	7:20	P	DISTAL END OF TAIL MISSING
				05-08-02	7:18	P	DISTAL END OF TAIL MISSING
				05-15-02	6:58	P	DISTAL END OF TAIL MISSING
				05-22-02	6:55	P	DISTAL END OF TAIL MISSING
				05-28-02	7:06	P	DISTAL END OF TAIL MISSING
74782-09	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74785-08	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74785-08	F	500 PPM	BODY/INTEGUMENT	04-24-02	7:28	1	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:29	1	HAIR LOSS LEFT FORELIMB
				05-01-02	7:21	1	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:21	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:18	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:18	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:18	P	SCABBING LEFT FORELIMB
				05-15-02	6:59	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	6:59	1	HAIR LOSS LEFT FORELIMB
				05-22-02	6:56	2	HAIR LOSS LEFT FORELIMB
74785-08	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74790-15	F	500 PPM	DISPOSITION	05-29-02	8:29	P	SCHEDULED EUTHANASIA
74790-15	F	500 PPM	BODY/INTEGUMENT	05-08-02	7:19	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:19	1	HAIR LOSS LEFT FORELIMB
				05-22-02	6:57	1	HAIR LOSS RIGHT FORELIMB
				05-28-02	7:09	1	HAIR LOSS RIGHT FORELIMB
				05-28-02	7:09	1	HAIR LOSS LEFT FORELIMB
				05-29-02	7:12	1	HAIR LOSS RIGHT FORELIMB
				05-29-02	7:12	1	HAIR LOSS LEFT FORELIMB
74790-15	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-14	F	500 PPM	DISPOSITION	05-31-02	7:18	P	NECROPSY SCHEDULED EUTHANASIA
74790-14	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74796-15	F	500 PPM	DISPOSITION	05-29-02	8:28	P	SCHEDULED EUTHANASIA
74796-15	F	500 PPM	BODY/INTEGUMENT	03-20-02	7:30	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:20	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:20	1	HAIR LOSS LEFT FORELIMB
				05-15-02	7:02	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:02	1	HAIR LOSS LEFT FORELIMB
				05-22-02	6:58	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	6:59	2	HAIR LOSS LEFT FORELIMB
74796-15	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74797-12	F	500 PPM	DISPOSITION	05-28-02	9:25	P	SCHEDULED EUTHANASIA
74797-12	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74798-13	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74798-13	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74798-12	F	500 PPM	DISPOSITION	05-29-02	8:30	P	SCHEDULED EUTHANASIA
74798-12	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74802-10	F	500 PPM	DISPOSITION	05-29-02	8:29	P	SCHEDULED EUTHANASIA
74802-10	F	500 PPM	EXCRETA	05-15-02	7:05	P	SOFT STOOL
74802-10	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74809-08	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74809-08	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74816-12	F	500 PPM	DISPOSITION	05-28-02	9:24	P	NECROPSY SCHEDULED EUTHANASIA
74816-12	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74819-10	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74819-10	F	500 PPM	EYES/EARS/NOSE	04-03-02	7:59	1	DRIED RED MATERIAL AROUND NOSE
74819-10	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74823-12	F	500 PPM	DISPOSITION	05-28-02	9:24	P	SCHEDULED EUTHANASIA
74823-12	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74824-11	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74824-11	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74835-11	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74835-11	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74835-07	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74835-07	F	500 PPM	BODY/INTEGUMENT	05-30-02	7:05	1	HAIR LOSS UROGENITAL AREA
74835-07	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74838-11	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74838-11	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74839-18	F	500 PPM	DISPOSITION	05-28-02	9:23	P	SCHEDULED EUTHANASIA
74839-18	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74846-07	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74846-07	F	500 PPM	BODY/INTEGUMENT	03-13-02	7:56	1	HAIR LOSS DORSAL RUMP

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74846-07	F	500 PPM	BODY/INTEGUMENT	05-28-02	7:23	1	HAIR LOSS LUMBAR AREA
				05-31-02	7:06	1	HAIR LOSS LUMBAR AREA
74846-07	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74856-15	F	500 PPM	DISPOSITION	05-28-02	9:23	P	SCHEDULED EUTHANASIA
74856-15	F	500 PPM	EYES/EARS/NOSE	05-15-02	7:12	1	DRIED RED MATERIAL AROUND NOSE
				05-22-02	7:06	1	DRIED RED MATERIAL AROUND NOSE
74856-15	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74859-09	F	500 PPM	DISPOSITION	05-29-02	8:30	P	SCHEDULED EUTHANASIA
74859-09	F	500 PPM	BODY/INTEGUMENT	05-08-02	7:25	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:25	1	HAIR LOSS LEFT FORELIMB
				05-28-02	7:26	1	HAIR LOSS LEFT FORELIMB
				05-29-02	7:16	1	HAIR LOSS RIGHT FORELIMB
				05-29-02	7:16	1	HAIR LOSS LEFT FORELIMB
74859-09	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74859-12	F	500 PPM	DISPOSITION	05-29-02	8:29	P	SCHEDULED EUTHANASIA
74859-12	F	500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74861-05	F	500 PPM	DISPOSITION	05-30-02	8:03	P	SCHEDULED EUTHANASIA
74861-05	F	500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74863-10	F	500 PPM	DISPOSITION	05-28-02	9:24	P	SCHEDULED EUTHANASIA
74863-10	F	500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74869-04	F	500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74869-04	F	500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74738-07	F	1000 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74738-07	F	1000 PPM	BODY/INTEGUMENT	04-24-02	7:40	1	HAIR LOSS LEFT FORELIMB
				05-01-02	7:30	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:28	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:28	1	HAIR LOSS LEFT FORELIMB
				05-15-02	7:23	1	HAIR LOSS LEFT FORELIMB
				05-28-02	7:30	1	HAIR LOSS RIGHT FORELIMB
74738-07	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74738-12	F	1000 PPM	DISPOSITION	05-28-02	9:25	P	SCHEDULED EUTHANASIA
74738-12	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74739-08	F	1000 PPM	DISPOSITION	05-29-02	8:32	P	SCHEDULED EUTHANASIA
74739-08	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74743-08	F	1000 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74743-08	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74744-16	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74744-16	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74748-11	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74748-11	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74752-10	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74752-10	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74766-13	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74766-13	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74780-04	F	1000 PPM	DISPOSITION	05-28-02	9:33	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74780-04	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74791-13	F	1000 PPM	DISPOSITION	05-29-02	8:31	P	SCHEDULED EUTHANASIA
74791-13	F	1000 PPM	BODY/INTEGUMENT	03-20-02	7:41	2	DRIED YELLOW MATERIAL UROGENITAL AREA
74791-13	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74793-14	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74793-14	F	1000 PPM	BODY/INTEGUMENT	04-17-02	7:04	1	HAIR LOSS RIGHT FORELIMB
74793-14	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74795-09	F	1000 PPM	DISPOSITION	05-29-02	8:32	P	SCHEDULED EUTHANASIA
74795-09	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74799-14	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74799-14	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74801-14	F	1000 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74801-14	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74806-11	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74806-11	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74820-12	F	1000 PPM	DISPOSITION	05-29-02	8:32	P	SCHEDULED EUTHANASIA
74820-12	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74821-09	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74821-09	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74821-07	F	1000 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-07	F	1000 PPM	BODY/INTEGUMENT	03-13-02	8:29	1	HAIR LOSS RIGHT FORELIMB
				03-13-02	8:29	1	HAIR LOSS LEFT FORELIMB
				03-20-02	7:43	1	HAIR LOSS RIGHT FORELIMB
				03-20-02	7:43	1	HAIR LOSS LEFT FORELIMB
				03-20-02	7:44	1	HAIR LOSS VENTRAL NECK
				03-27-02	7:26	2	HAIR LOSS RIGHT FORELIMB
				03-27-02	7:26	2	HAIR LOSS LEFT FORELIMB
				04-03-02	8:11	1	HAIR LOSS RIGHT FORELIMB
				04-03-02	8:11	1	HAIR LOSS LEFT FORELIMB
				04-10-02	7:31	1	HAIR LOSS RIGHT FORELIMB
				04-10-02	7:31	1	HAIR LOSS LEFT FORELIMB
				04-17-02	7:06	2	HAIR LOSS RIGHT FORELIMB
				04-17-02	7:06	2	HAIR LOSS LEFT FORELIMB
				04-24-02	7:53	2	HAIR LOSS RIGHT FORELIMB
				04-24-02	7:53	2	HAIR LOSS LEFT FORELIMB
				05-01-02	7:35	2	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:35	2	HAIR LOSS LEFT FORELIMB
				05-08-02	7:33	2	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:33	2	HAIR LOSS LEFT FORELIMB
				05-15-02	7:30	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:30	2	HAIR LOSS LEFT FORELIMB
				05-22-02	7:17	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	7:17	2	HAIR LOSS LEFT FORELIMB
				05-28-02	7:42	2	HAIR LOSS RIGHT FORELIMB
				05-28-02	7:42	2	HAIR LOSS LEFT FORELIMB
74821-07	F	1000 PPM	EYES/EARS/NOSE	04-10-02	7:32	1	DRIED RED MATERIAL AROUND NOSE
74821-07	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74830-11	F	1000 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74830-11	F	1000 PPM	BODY/INTEGUMENT	05-01-02	7:35	P	SCABBING RIGHT FORELIMB
				05-08-02	7:34	P	SCABBING RIGHT FORELIMB
74830-11	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74831-12	F	1000 PPM	DISPOSITION	05-29-02	8:31	P	SCHEDULED EUTHANASIA
74831-12	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74834-07	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74834-07	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74847-09	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74847-09	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74848-04	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74848-04	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74849-07	F	1000 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74849-07	F	1000 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74850-11	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74850-11	F	1000 PPM	EYES/EARS/NOSE	04-03-02	8:12	1	DRIED RED MATERIAL AROUND NOSE
74850-11	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74850-14	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74850-14	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74855-11	F	1000 PPM	DISPOSITION	05-29-02	8:31	P	SCHEDULED EUTHANASIA
74855-11	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74858-14	F	1000 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74858-14	F	1000 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74868-20	F	1000 PPM	DISPOSITION	05-29-02	8:32	P	SCHEDULED EUTHANASIA
74868-20	F	1000 PPM	BODY/INTEGUMENT	02-06-02	7:36	P	SCABBING DORSAL THORACIC AREA
				02-06-02	7:37	1	HAIR LOSS DORSAL THORACIC AREA
				02-13-02	7:31	P	SCABBING DORSAL THORACIC AREA
				02-13-02	7:31	1	HAIR LOSS DORSAL THORACIC AREA
				02-20-02	7:30	1	HAIR LOSS DORSAL THORACIC AREA
				02-20-02	7:30	P	SCABBING DORSAL THORACIC AREA
74868-20	F	1000 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74871-09	F	1000 PPM	DISPOSITION	05-28-02	9:25	P	SCHEDULED EUTHANASIA
74871-09	F	1000 PPM	EYES/EARS/NOSE	04-10-02	7:34	1	DRIED RED MATERIAL AROUND NOSE
74871-09	F	1000 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74747-17	F	2500 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74747-17	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74751-13	F	2500 PPM	DISPOSITION	05-29-02	8:35	P	SCHEDULED EUTHANASIA
74751-13	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74754-15	F	2500 PPM	DISPOSITION	05-29-02	8:34	P	SCHEDULED EUTHANASIA
74754-15	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74755-01	F	2500 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74755-01	F	2500 PPM	BODY/INTEGUMENT	01-16-02	7:18	P	TAIL ABSENT
				01-23-02	7:35	P	TAIL ABSENT
				01-30-02	7:07	P	TAIL ABSENT
				02-06-02	7:42	P	TAIL ABSENT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74755-01	F	2500 PPM	BODY/INTEGUMENT	02-13-02	7:38	P	TAIL ABSENT
				02-20-02	7:34	P	TAIL ABSENT
				02-27-02	7:26	P	TAIL ABSENT
				03-06-02	7:15	P	TAIL ABSENT
				03-13-02	8:35	P	TAIL ABSENT
				03-20-02	7:50	P	TAIL ABSENT
				03-27-02	7:33	P	TAIL ABSENT
				04-03-02	8:16	P	TAIL ABSENT
				04-10-02	7:35	P	TAIL ABSENT
				04-17-02	7:12	P	TAIL ABSENT
				04-24-02	7:59	P	TAIL ABSENT
				05-01-02	7:42	P	TAIL ABSENT
				05-08-02	7:40	P	TAIL ABSENT
				05-15-02	7:39	P	TAIL ABSENT
				05-22-02	7:25	P	TAIL ABSENT
				05-28-02	7:55	P	TAIL ABSENT
74755-01	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74768-11	F	2500 PPM	DISPOSITION	05-30-02	8:04	P	SCHEDULED EUTHANASIA
74768-11	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74769-08	F	2500 PPM	DISPOSITION	05-29-02	8:34	P	SCHEDULED EUTHANASIA
74769-08	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74770-11	F	2500 PPM	DISPOSITION	05-29-02	8:33	P	SCHEDULED EUTHANASIA
74770-11	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74770-10	F	2500 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74770-10	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
						NECROPSY
74786-10	F	2500 PPM	DISPOSITION	05-31-02	7:18	P SCHEDULED EUTHANASIA
74786-10	F	2500 PPM	BODY/INTEGUMENT	04-10-02	7:36	1 HAIR LOSS RIGHT FORELIMB
				04-10-02	7:37	1 HAIR LOSS LEFT FORELIMB
				04-17-02	7:14	2 HAIR LOSS RIGHT FORELIMB
				04-17-02	7:14	2 HAIR LOSS LEFT FORELIMB
				04-24-02	8:02	2 HAIR LOSS RIGHT FORELIMB
				04-24-02	8:02	2 HAIR LOSS LEFT FORELIMB
				05-01-02	7:44	2 HAIR LOSS RIGHT FORELIMB
				05-01-02	7:44	2 HAIR LOSS LEFT FORELIMB
				05-01-02	7:44	1 HAIR LOSS RIGHT HINDLIMB
				05-01-02	7:44	1 HAIR LOSS LEFT HINDLIMB
				05-08-02	7:43	2 HAIR LOSS RIGHT FORELIMB
				05-08-02	7:43	2 HAIR LOSS LEFT FORELIMB
				05-15-02	7:41	2 HAIR LOSS RIGHT FORELIMB
				05-15-02	7:41	2 HAIR LOSS LEFT FORELIMB
				05-22-02	7:28	2 HAIR LOSS RIGHT FORELIMB
				05-22-02	7:28	2 HAIR LOSS LEFT FORELIMB
				05-28-02	8:01	2 HAIR LOSS RIGHT FORELIMB
				05-28-02	8:01	2 HAIR LOSS LEFT FORELIMB
				05-28-02	8:03	2 HAIR LOSS VENTRAL THORACIC AREA
				05-31-02	6:57	2 HAIR LOSS VENTRAL THORACIC AREA
				05-31-02	6:57	2 HAIR LOSS RIGHT FORELIMB
				05-31-02	6:57	2 HAIR LOSS LEFT FORELIMB
74786-10	F	2500 PPM	SPECIAL II	05-31-02	0:00	P ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74787-10	F	2500 PPM	DISPOSITION	05-29-02	8:34	P SCHEDULED EUTHANASIA
74787-10	F	2500 PPM	SPECIAL II	05-29-02	0:00	P ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74792-11	F	2500 PPM	DISPOSITION	05-28-02	9:34	P SCHEDULED EUTHANASIA

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-11	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74792-12	F	2500 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74792-12	F	2500 PPM	EYES/EARS/NOSE	04-10-02	7:38	1	DRIED RED MATERIAL AROUND NOSE
74792-12	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE PROESTRUS PRIOR TO NECROPSY
74807-08	F	2500 PPM	DISPOSITION	05-28-02	9:35	P	SCHEDULED EUTHANASIA
74807-08	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74811-13	F	2500 PPM	DISPOSITION	05-29-02	8:33	P	SCHEDULED EUTHANASIA
74811-13	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74813-12	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74813-12	F	2500 PPM	BODY/INTEGUMENT	04-03-02	8:20	P	SCABBING LEFT FORELIMB
				04-10-02	7:39	P	SCABBING LEFT FORELIMB
				05-28-02	8:08	2	HAIR LOSS RIGHT LATERAL THORACIC AREA
				05-31-02	6:58	2	HAIR LOSS RIGHT LATERAL THORACIC AREA
74813-12	F	2500 PPM	EYES/EARS/NOSE	03-13-02	8:41	P	RED AND SWOLLEN RIGHT EAR
				03-13-02	8:41	P	RED AND SWOLLEN LEFT EAR
				04-03-02	8:19	P	RED AND SWOLLEN RIGHT EAR
				04-03-02	8:19	P	RED AND SWOLLEN LEFT EAR
				04-10-02	7:39	P	RED AND SWOLLEN RIGHT EAR
				04-10-02	7:39	P	RED AND SWOLLEN LEFT EAR
				04-17-02	7:16	P	RED AND SWOLLEN LEFT EAR
				04-17-02	7:16	P	RED AND SWOLLEN RIGHT EAR
				04-24-02	8:05	P	RED AND SWOLLEN RIGHT EAR
				04-24-02	8:05	P	RED AND SWOLLEN LEFT EAR
				05-01-02	7:46	P	RED AND SWOLLEN RIGHT EAR
				05-01-02	7:46	P	RED AND SWOLLEN LEFT EAR

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74813-12	F	2500 PPM	EYES/EARS/NOSE	05-08-02	7:45	P	RED AND SWOLLEN RIGHT EAR
				05-08-02	7:45	P	RED AND SWOLLEN LEFT EAR
				05-15-02	7:44	P	RED AND SWOLLEN RIGHT EAR
				05-15-02	7:44	P	RED AND SWOLLEN LEFT EAR
				05-22-02	7:30	P	RED AND SWOLLEN RIGHT EAR
				05-22-02	7:30	P	RED AND SWOLLEN LEFT EAR
				05-28-02	8:07	P	RED AND SWOLLEN RIGHT EAR
				05-28-02	8:07	P	RED AND SWOLLEN LEFT EAR
				05-31-02	6:58	P	RED AND SWOLLEN RIGHT EAR
				05-31-02	6:58	P	RED AND SWOLLEN LEFT EAR
74813-12	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74817-13	F	2500 PPM	DISPOSITION	05-28-02	9:35	P	SCHEDULED EUTHANASIA
74817-13	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74822-08	F	2500 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74822-08	F	2500 PPM	EYES/EARS/NOSE	04-03-02	8:20	1	DRIED RED MATERIAL AROUND NOSE
74822-08	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74827-11	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74827-11	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74832-07	F	2500 PPM	DISPOSITION	05-29-02	8:33	P	SCHEDULED EUTHANASIA
74832-07	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74833-11	F	2500 PPM	DISPOSITION	05-29-02	8:34	P	SCHEDULED EUTHANASIA
74833-11	F	2500 PPM	BODY/INTEGUMENT	04-17-02	7:18	1	HAIR LOSS RIGHT FORELIMB
				04-17-02	7:18	1	HAIR LOSS LEFT FORELIMB
				04-24-02	8:08	1	HAIR LOSS LEFT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74833-11	F	2500 PPM	BODY/INTEGUMENT	04-24-02	8:08	2	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:48	1	HAIR LOSS LEFT FORELIMB
				05-01-02	7:48	2	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:46	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:46	1	HAIR LOSS LEFT FORELIMB
				05-15-02	7:46	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:47	2	HAIR LOSS LEFT FORELIMB
				05-22-02	7:33	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	7:33	2	HAIR LOSS LEFT FORELIMB
74833-11	F	2500 PPM	SPECIAL II	05-29-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74836-12	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74836-12	F	2500 PPM	BODY/INTEGUMENT	05-01-02	7:48	1	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:48	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:47	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:47	1	HAIR LOSS LEFT FORELIMB
				05-15-02	7:47	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:47	1	HAIR LOSS LEFT FORELIMB
				05-22-02	7:34	1	HAIR LOSS RIGHT FORELIMB
				05-22-02	7:34	1	HAIR LOSS LEFT FORELIMB
74836-12	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74836-11	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74836-11	F	2500 PPM	BODY/INTEGUMENT	05-08-02	7:48	1	HAIR LOSS RIGHT FORELIMB
				05-08-02	7:48	1	HAIR LOSS LEFT FORELIMB
				05-08-02	7:48	P	SCABBING LEFT HINDLIMB
				05-15-02	7:48	1	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:48	1	HAIR LOSS LEFT FORELIMB
				05-22-02	7:35	1	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74836-11	F	2500 PPM	BODY/INTEGUMENT	05-22-02	7:35	1	HAIR LOSS LEFT FORELIMB
				05-28-02	8:14	1	HAIR LOSS RIGHT FORELIMB
				05-28-02	8:14	1	HAIR LOSS LEFT FORELIMB
				05-31-02	6:59	1	HAIR LOSS RIGHT FORELIMB
				05-31-02	6:59	1	HAIR LOSS LEFT FORELIMB
74836-11	F	2500 PPM	EYES/EARS/NOSE	04-03-02	8:22	1	DRIED RED MATERIAL AROUND NOSE
74836-11	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74853-11	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74853-11	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74853-12	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74853-12	F	2500 PPM	EYES/EARS/NOSE	04-10-02	7:42	1	DRIED RED MATERIAL AROUND NOSE
74853-12	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74857-14	F	2500 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74857-14	F	2500 PPM	EYES/EARS/NOSE	03-13-02	8:44	1	DRIED RED MATERIAL AROUND NOSE
74857-14	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74857-09	F	2500 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74857-09	F	2500 PPM	BODY/INTEGUMENT	04-10-02	7:42	1	HAIR LOSS RIGHT FORELIMB
				04-10-02	7:42	1	HAIR LOSS LEFT FORELIMB
				04-17-02	7:20	1	HAIR LOSS RIGHT FORELIMB
				04-17-02	7:20	1	HAIR LOSS LEFT FORELIMB
				04-24-02	8:10	2	HAIR LOSS RIGHT FORELIMB
				04-24-02	8:10	2	HAIR LOSS LEFT FORELIMB
				05-01-02	7:50	2	HAIR LOSS RIGHT FORELIMB
				05-01-02	7:50	2	HAIR LOSS LEFT FORELIMB
				05-08-02	7:49	2	HAIR LOSS RIGHT FORELIMB

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74857-09	F	2500 PPM	BODY/INTEGUMENT	05-08-02	7:49	2	HAIR LOSS LEFT FORELIMB
				05-15-02	7:50	2	HAIR LOSS RIGHT FORELIMB
				05-15-02	7:50	2	HAIR LOSS LEFT FORELIMB
				05-22-02	7:36	2	HAIR LOSS RIGHT FORELIMB
				05-22-02	7:36	2	HAIR LOSS LEFT FORELIMB
				05-28-02	8:17	2	HAIR LOSS RIGHT FORELIMB
				05-28-02	8:17	2	HAIR LOSS LEFT FORELIMB
74857-09	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74860-08	F	2500 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74860-08	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE METESTRUS PRIOR TO NECROPSY
74862-13	F	2500 PPM	DISPOSITION	05-28-02	9:34	P	SCHEDULED EUTHANASIA
74862-13	F	2500 PPM	SPECIAL II	05-28-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE DIESTRUS PRIOR TO NECROPSY
74866-16	F	2500 PPM	DISPOSITION	05-30-02	8:05	P	SCHEDULED EUTHANASIA
74866-16	F	2500 PPM	BODY/INTEGUMENT	05-08-02	7:51	1	HAIR LOSS RIGHT FORELIMB
74866-16	F	2500 PPM	EYES/EARS/NOSE	04-03-02	8:24	P	RED AND SWOLLEN RIGHT EAR
				04-03-02	8:24	P	RED AND SWOLLEN LEFT EAR
				04-10-02	7:43	P	RED AND SWOLLEN RIGHT EAR
				04-10-02	7:43	P	RED AND SWOLLEN LEFT EAR
				04-17-02	7:21	P	RED AND SWOLLEN RIGHT EAR
				04-17-02	7:21	P	RED AND SWOLLEN LEFT EAR
				04-24-02	8:12	P	RED AND SWOLLEN RIGHT EAR
				04-24-02	8:12	P	RED AND SWOLLEN LEFT EAR
				05-01-02	7:51	P	RED AND SWOLLEN RIGHT EAR
				05-01-02	7:51	P	RED AND SWOLLEN LEFT EAR
				05-08-02	7:51	P	RED AND SWOLLEN RIGHT EAR
				05-08-02	7:51	P	RED AND SWOLLEN LEFT EAR

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 184 (F1 FEMALES - DETAILED PHYSICAL EXAMINATIONS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS [POSITIVE FINDINGS ONLY]

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TABLE RANGE: 01-02-02 TO 05-31-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74866-16	F	2500 PPM	EYES/EARS/NOSE	05-15-02	7:52	P	RED AND SWOLLEN RIGHT EAR
				05-15-02	7:52	P	RED AND SWOLLEN LEFT EAR
				05-22-02	7:38	P	RED AND SWOLLEN RIGHT EAR
				05-22-02	7:38	P	RED AND SWOLLEN LEFT EAR
				05-28-02	8:19	P	RED AND SWOLLEN RIGHT EAR
				05-28-02	8:20	P	RED AND SWOLLEN LEFT EAR
				05-30-02	6:57	P	RED AND SWOLLEN RIGHT EAR
				05-30-02	6:57	P	RED AND SWOLLEN LEFT EAR
74866-16	F	2500 PPM	SPECIAL II	05-30-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY
74870-03	F	2500 PPM	DISPOSITION	05-31-02	7:18	P	SCHEDULED EUTHANASIA
74870-03	F	2500 PPM	BODY/INTEGUMENT	05-31-02	7:00	1	HAIR LOSS RIGHT FORELIMB
74870-03	F	2500 PPM	SPECIAL II	05-31-02	0:00	P	ESTROUS SMEARS DETERMINED TO BE ESTRUS PRIOR TO NECROPSY

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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 12/09/2002

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 1

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:19	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:25	P	NO REACTION TO STIMULUS
				02-14-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-15-02	10:50	P	NO REACTION TO STIMULUS
				02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:45	P	NO REACTION TO STIMULUS
				02-18-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:50	P	NO REACTION TO STIMULUS
				02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:50	P	NO REACTION TO STIMULUS
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:22	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	NO REACTION TO STIMULUS
				02-27-02	11:20	P	NO REACTION TO STIMULUS
				02-28-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:36	P	NO REACTION TO STIMULUS
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P	NO REACTION TO STIMULUS
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74757-05	M	0 PPM	BEHAVIOR/CNS	03-20-02	11:35	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-21-02	10:50	P	NO REACTION TO STIMULUS
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-24-02	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-26-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-28-02	11:43	P	NO REACTION TO STIMULUS
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				03-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				04-01-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				04-03-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				04-04-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P	NO REACTION TO STIMULUS
				04-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:00	P	NO REACTION TO STIMULUS
				04-11-02	10:50	P	NO REACTION TO STIMULUS
				04-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:40	P	NO REACTION TO STIMULUS
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS
				04-22-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74757-05	M	0 PPM	BEHAVIOR/CNS	04-23-02	11:05	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P	NO REACTION TO STIMULUS
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P	NO REACTION TO STIMULUS
				05-04-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	NO REACTION TO STIMULUS
				05-09-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74757-05	M	0 PPM	BEHAVIOR/CNS	05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P	NO REACTION TO STIMULUS
				05-14-02	10:40	P	NO REACTION TO STIMULUS
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:38	P	NO REACTION TO STIMULUS
74772-08	M	0 PPM	BEHAVIOR/CNS	01-09-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	BEHAVIOR/CNS	01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	NO REACTION TO STIMULUS
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	02-02-02	11:19	P	STIMULUS WAS HEARD
			02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-06-02	11:35	P	NO REACTION TO STIMULUS
			02-07-02	10:50	P	NO REACTION TO STIMULUS
			02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-09-02	10:19	P	NO REACTION TO STIMULUS
			02-10-02	10:26	P	NO REACTION TO STIMULUS
			02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-12-02	10:50	P	NO REACTION TO STIMULUS
			02-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-14-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-15-02	10:50	P	NO REACTION TO STIMULUS
			02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-18-02	11:15	P	NO REACTION TO STIMULUS
			02-19-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	BEHAVIOR/CNS	02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:22	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:36	P	NO REACTION TO STIMULUS
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	NO REACTION TO STIMULUS
				03-08-02	10:55	P	NO REACTION TO STIMULUS
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74772-08	M	0 PPM	BEHAVIOR/CNS	03-10-02	10:20	P	STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	NO REACTION TO STIMULUS
				03-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74772-08	M	0 PPM	BEHAVIOR/CNS	03-26-02	11:10	P	STIMULUS WAS HEARD
				03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-30-02	12:05	P	NO REACTION TO STIMULUS
				03-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P	NO REACTION TO STIMULUS
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	04-10-02	11:35	P	STIMULUS WAS HEARD
			04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-13-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-14-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-17-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-18-02	10:50	P	NO REACTION TO STIMULUS
			04-19-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-20-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-21-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-22-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-23-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-24-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-25-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	04-26-02	11:03	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-27-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-30-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-04-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-05-02	10:20	P	NO REACTION TO STIMULUS
			05-06-02	10:45	P	NO REACTION TO STIMULUS
			05-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-10-02	10:50	P	NO REACTION TO STIMULUS
			05-11-02	10:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74772-08	M	0 PPM	BEHAVIOR/CNS	05-12-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74773-02	M	0 PPM	BEHAVIOR/CNS	05-24-02	10:38	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	02-02-02	11:19	P NO REACTION TO STIMULUS
				02-03-02	10:40	P NO REACTION TO STIMULUS
				02-04-02	11:20	P NO REACTION TO STIMULUS
				02-05-02	11:20	P NO REACTION TO STIMULUS
				02-06-02	11:35	P NO REACTION TO STIMULUS
				02-07-02	10:50	P NO REACTION TO STIMULUS
				02-08-02	10:50	P NO REACTION TO STIMULUS
				02-09-02	10:19	P NO REACTION TO STIMULUS
				02-10-02	10:26	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:05	P NO REACTION TO STIMULUS
				02-12-02	10:50	P NO REACTION TO STIMULUS
				02-13-02	11:25	P NO REACTION TO STIMULUS
				02-14-02	11:05	P NO REACTION TO STIMULUS
				02-15-02	10:50	P NO REACTION TO STIMULUS
				02-16-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:15	P NO REACTION TO STIMULUS
				02-19-02	10:50	P NO REACTION TO STIMULUS
				02-20-02	11:35	P NO REACTION TO STIMULUS
				02-21-02	10:55	P NO REACTION TO STIMULUS
				02-22-02	10:50	P NO REACTION TO STIMULUS
				02-23-02	10:41	P NO REACTION TO STIMULUS
				02-24-02	10:22	P NO REACTION TO STIMULUS
				02-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	02-27-02	11:20	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P NO REACTION TO STIMULUS
				03-01-02	11:00	P NO REACTION TO STIMULUS
				03-02-02	11:18	P NO REACTION TO STIMULUS
				03-03-02	11:36	P NO REACTION TO STIMULUS
				03-04-02	10:55	P NO REACTION TO STIMULUS
				03-05-02	10:50	P NO REACTION TO STIMULUS
				03-06-02	11:45	P NO REACTION TO STIMULUS
				03-07-02	10:45	P NO REACTION TO STIMULUS
				03-08-02	10:55	P NO REACTION TO STIMULUS
				03-09-02	10:22	P NO REACTION TO STIMULUS
				03-10-02	10:20	P NO REACTION TO STIMULUS
				03-11-02	10:55	P NO REACTION TO STIMULUS
				03-12-02	11:10	P NO REACTION TO STIMULUS
				03-13-02	11:55	P NO REACTION TO STIMULUS
				03-14-02	10:30	P NO REACTION TO STIMULUS
				03-15-02	10:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P NO REACTION TO STIMULUS
				03-17-02	11:00	P NO REACTION TO STIMULUS
				03-18-02	10:55	P NO REACTION TO STIMULUS
				03-19-02	11:33	P NO REACTION TO STIMULUS
				03-20-02	11:35	P NO REACTION TO STIMULUS
				03-21-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P NO REACTION TO STIMULUS
				03-23-02	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	03-24-02	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P	NO REACTION TO STIMULUS
				03-28-02	11:43	P	NO REACTION TO STIMULUS
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	NO REACTION TO STIMULUS
				03-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P	NO REACTION TO STIMULUS
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P	NO REACTION TO STIMULUS
				04-04-02	11:10	P	NO REACTION TO STIMULUS
				04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	NO REACTION TO STIMULUS
				04-07-02	11:05	P	NO REACTION TO STIMULUS
				04-08-02	11:05	P	NO REACTION TO STIMULUS
				04-09-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P	NO REACTION TO STIMULUS
				04-10-02	11:35	P	NO REACTION TO STIMULUS
				04-12-02	10:50	P	NO REACTION TO STIMULUS
				04-13-02	10:35	P	NO REACTION TO STIMULUS
				04-14-02	11:04	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:05	P	NO REACTION TO STIMULUS
				04-17-02	11:20	P	NO REACTION TO STIMULUS
				04-18-02	10:50	P	NO REACTION TO STIMULUS
				04-19-02	10:40	P	NO REACTION TO STIMULUS
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS
				04-22-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:05	P	NO REACTION TO STIMULUS
				04-24-02	11:40	P	NO REACTION TO STIMULUS
				04-25-02	11:20	P	NO REACTION TO STIMULUS
				04-26-02	11:03	P	NO REACTION TO STIMULUS
				04-27-02	11:01	P	NO REACTION TO STIMULUS
				04-28-02	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P	NO REACTION TO STIMULUS
				05-01-02	11:15	P	NO REACTION TO STIMULUS
				05-02-02	10:55	P	NO REACTION TO STIMULUS
				05-03-02	10:50	P	NO REACTION TO STIMULUS
				05-04-02	10:24	P	NO REACTION TO STIMULUS
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	NO REACTION TO STIMULUS
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	NO REACTION TO STIMULUS
				05-09-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74773-02	M	0 PPM	BEHAVIOR/CNS	05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	NO REACTION TO STIMULUS
				05-12-02	10:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-13-02	11:20	P	NO REACTION TO STIMULUS
				05-14-02	10:40	P	NO REACTION TO STIMULUS
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-28-02	12:30	P	NO REACTION TO STIMULUS
				05-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-30-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:38	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	NO REACTION TO STIMULUS
74774-03	M	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74774-03	M	0 PPM	BEHAVIOR/CNS	01-08-02	11:55	P	STIMULUS WAS HEARD
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	01-27-02	10:20	P NO REACTION TO STIMULUS
				01-28-02	10:50	P NO REACTION TO STIMULUS
				01-29-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-30-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	10:55	P NO REACTION TO STIMULUS
				02-01-02	11:10	P NO REACTION TO STIMULUS
				02-02-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P NO REACTION TO STIMULUS
				02-04-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:20	P NO REACTION TO STIMULUS
				02-06-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P NO REACTION TO STIMULUS
				02-09-02	10:19	P NO REACTION TO STIMULUS
				02-10-02	10:26	P NO REACTION TO STIMULUS
				02-11-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:50	P NO REACTION TO STIMULUS
				02-13-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:05	P NO REACTION TO STIMULUS
				02-15-02	10:50	P NO REACTION TO STIMULUS
				02-16-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	02-17-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-18-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:50	P NO REACTION TO STIMULUS
				02-23-02	10:41	P NO REACTION TO STIMULUS
				02-24-02	10:22	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P NO REACTION TO STIMULUS
				02-27-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:18	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:36	P NO REACTION TO STIMULUS
				03-04-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:50	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	NO REACTION TO STIMULUS
				03-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	NO REACTION TO STIMULUS
				03-20-02	11:35	P	NO REACTION TO STIMULUS
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	NO REACTION TO STIMULUS
				03-23-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	03-24-02	11:02	P NO REACTION TO STIMULUS
				03-25-02	11:00	P NO REACTION TO STIMULUS
				03-26-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P NO REACTION TO STIMULUS
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P NO REACTION TO STIMULUS
				04-08-02	11:05	P NO REACTION TO STIMULUS
				04-09-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	04-10-02	11:35	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-13-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-17-02	11:20	P	NO REACTION TO STIMULUS
			04-18-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-20-02	10:35	P	NO REACTION TO STIMULUS
			04-21-02	10:35	P	NO REACTION TO STIMULUS
			04-22-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-23-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-24-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-25-02	11:20	P	NO REACTION TO STIMULUS
			04-26-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-27-02	11:01	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	04-28-02	10:33	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-29-02	10:50	P NO REACTION TO STIMULUS
				04-30-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P NO REACTION TO STIMULUS
				05-04-02	10:24	P NO REACTION TO STIMULUS
				05-05-02	10:20	P NO REACTION TO STIMULUS
				05-06-02	10:45	P NO REACTION TO STIMULUS
				05-07-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-08-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:05	P NO REACTION TO STIMULUS
				05-10-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-11-02	10:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-12-02	10:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74774-03	M	0 PPM	BEHAVIOR/CNS	05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74804-04	M	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74804-04	M	0 PPM	BEHAVIOR/CNS	01-14-02	11:25	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74804-04	M	0 PPM	BEHAVIOR/CNS	02-01-02	11:10	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	NO REACTION TO STIMULUS
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	NO REACTION TO STIMULUS
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:19	P	NO REACTION TO STIMULUS
				02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	NO REACTION TO STIMULUS
				02-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:25	P	NO REACTION TO STIMULUS
				02-14-02	11:05	P	NO REACTION TO STIMULUS
				02-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:45	P	NO REACTION TO STIMULUS
				02-17-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-18-02	11:15	P	NO REACTION TO STIMULUS
				02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:35	P	NO REACTION TO STIMULUS
				02-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74804-04	M	0 PPM	BEHAVIOR/CNS	02-22-02	10:50	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:22	P	NO REACTION TO STIMULUS
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	NO REACTION TO STIMULUS
				02-27-02	11:20	P	NO REACTION TO STIMULUS
				02-28-02	11:25	P	NO REACTION TO STIMULUS
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	NO REACTION TO STIMULUS
				03-03-02	11:36	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	NO REACTION TO STIMULUS
				03-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	NO REACTION TO STIMULUS
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74804-04	M	0 PPM	BEHAVIOR/CNS	03-15-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P NO REACTION TO STIMULUS
				03-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P NO REACTION TO STIMULUS
				03-19-02	11:33	P NO REACTION TO STIMULUS
				03-20-02	11:35	P NO REACTION TO STIMULUS
				03-21-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P NO REACTION TO STIMULUS
				03-24-02	11:02	P NO REACTION TO STIMULUS
				03-25-02	11:00	P NO REACTION TO STIMULUS
				03-26-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P NO REACTION TO STIMULUS
				03-29-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74804-04	M	0 PPM	BEHAVIOR/CNS	04-04-02	11:10	P	STIMULUS WAS HEARD
				04-05-02	11:15	P	NO REACTION TO STIMULUS
				04-06-02	11:04	P	NO REACTION TO STIMULUS
				04-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P	NO REACTION TO STIMULUS
				04-09-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-11-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P	NO REACTION TO STIMULUS
				04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:20	P	NO REACTION TO STIMULUS
				04-18-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74804-04	M	0 PPM	BEHAVIOR/CNS	04-22-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:20	P	NO REACTION TO STIMULUS
				04-26-02	11:03	P	NO REACTION TO STIMULUS
				04-27-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P	NO REACTION TO STIMULUS
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P	NO REACTION TO STIMULUS
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	NO REACTION TO STIMULUS
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74804-04	M	0 PPM	05-11-02	10:05	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-12-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-13-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-14-02	10:40	P	NO REACTION TO STIMULUS
			05-15-02	11:00	P	NO REACTION TO STIMULUS
			05-16-02	10:55	P	NO REACTION TO STIMULUS
			05-17-02	10:55	P	NO REACTION TO STIMULUS
			05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-19-02	9:56	P	NO REACTION TO STIMULUS
			05-25-02	10:30	P	NO REACTION TO STIMULUS
			05-26-02	10:25	P	NO REACTION TO STIMULUS
			05-27-02	10:05	P	NO REACTION TO STIMULUS
			05-28-02	12:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-29-02	11:00	P	NO REACTION TO STIMULUS
			05-30-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-20-02	10:25	P	NO REACTION TO STIMULUS
			05-21-02	11:00	P	NO REACTION TO STIMULUS
			05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-24-02	10:38	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	BEHAVIOR/CNS	01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	01-23-02	11:03	P	STIMULUS WAS HEARD
			01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-25-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-26-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-29-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			01-30-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			01-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-01-02	11:10	P	NO REACTION TO STIMULUS
			02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-04-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-06-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	02-07-02	10:50	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-09-02	10:19	P	NO REACTION TO STIMULUS
			02-10-02	10:26	P	NO REACTION TO STIMULUS
			02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-13-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-14-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-15-02	10:50	P	NO REACTION TO STIMULUS
			02-16-02	10:45	P	NO REACTION TO STIMULUS
			02-17-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-18-02	11:15	P	NO REACTION TO STIMULUS
			02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-21-02	10:55	P	NO REACTION TO STIMULUS
			02-22-02	10:50	P	NO REACTION TO STIMULUS
			02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-24-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	02-25-02	11:00	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-28-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-01-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-02-02	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-03-02	11:36	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-04-02	10:55	P	NO REACTION TO STIMULUS
			03-05-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-08-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808-01	M	0 PPM	BEHAVIOR/CNS	03-12-02	11:10	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-21-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-22-02	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-23-02	11:15	P	NO REACTION TO STIMULUS
				03-24-02	11:02	P	NO REACTION TO STIMULUS
				03-25-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-26-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808-01	M	0 PPM	BEHAVIOR/CNS	03-28-02	11:43	P	STIMULUS WAS HEARD
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:15	P	NO REACTION TO STIMULUS
				04-03-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-11-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
04-12-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	BEHAVIOR/CNS	04-13-02	10:35	P VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:04	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:40	P NO REACTION TO STIMULUS
				04-20-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-22-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:03	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-27-02	11:01	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	BEHAVIOR/CNS	04-28-02	10:33	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-29-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-30-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-04-02	10:24	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:45	P NO REACTION TO STIMULUS
				05-07-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-08-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-09-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-11-02	10:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-12-02	10:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74808-01	M	0 PPM	BEHAVIOR/CNS	05-14-02	10:40	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-21-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74808-01	M	0 PPM	BEHAVIOR/CNS	03-08-02	10:55	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74844-04	M	0 PPM	BEHAVIOR/CNS	01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	NO REACTION TO STIMULUS
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844-04	M	0 PPM	BEHAVIOR/CNS	01-31-02	10:55	P NO REACTION TO STIMULUS
				02-01-02	11:10	P NO REACTION TO STIMULUS
				02-02-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P NO REACTION TO STIMULUS
				02-04-02	11:20	P NO REACTION TO STIMULUS
				02-05-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P NO REACTION TO STIMULUS
				02-09-02	10:19	P NO REACTION TO STIMULUS
				02-10-02	10:26	P NO REACTION TO STIMULUS
				02-11-02	11:05	P NO REACTION TO STIMULUS
				02-12-02	10:50	P NO REACTION TO STIMULUS
				02-13-02	11:25	P NO REACTION TO STIMULUS
				02-14-02	11:05	P NO REACTION TO STIMULUS
				02-15-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:45	P NO REACTION TO STIMULUS
				02-17-02	10:45	P NO REACTION TO STIMULUS
				02-18-02	11:15	P NO REACTION TO STIMULUS
				02-19-02	10:50	P NO REACTION TO STIMULUS
				02-20-02	11:35	P NO REACTION TO STIMULUS
				02-21-02	10:55	P NO REACTION TO STIMULUS
				02-22-02	10:50	P NO REACTION TO STIMULUS
				02-23-02	10:41	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2151 of 3891

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844-04	M	0 PPM	BEHAVIOR/CNS	02-24-02	10:22	P	NO REACTION TO STIMULUS
				02-25-02	11:00	P	NO REACTION TO STIMULUS
				02-26-02	11:25	P	NO REACTION TO STIMULUS
				02-27-02	11:20	P	NO REACTION TO STIMULUS
				02-28-02	11:25	P	NO REACTION TO STIMULUS
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	NO REACTION TO STIMULUS
				03-03-02	11:36	P	NO REACTION TO STIMULUS
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	NO REACTION TO STIMULUS
				03-07-02	10:45	P	NO REACTION TO STIMULUS
				03-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	NO REACTION TO STIMULUS
				03-13-02	11:55	P	NO REACTION TO STIMULUS
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P	NO REACTION TO STIMULUS
				03-17-02	11:00	P	NO REACTION TO STIMULUS
				03-18-02	10:55	P	NO REACTION TO STIMULUS
				03-19-02	11:33	P	NO REACTION TO STIMULUS
				03-20-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844-04	M	0 PPM	BEHAVIOR/CNS	03-21-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P NO REACTION TO STIMULUS
				03-23-02	11:15	P NO REACTION TO STIMULUS
				03-24-02	11:02	P NO REACTION TO STIMULUS
				03-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P NO REACTION TO STIMULUS
				03-29-02	12:00	P NO REACTION TO STIMULUS
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P NO REACTION TO STIMULUS
				04-01-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P NO REACTION TO STIMULUS
				04-04-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P NO REACTION TO STIMULUS
				04-06-02	11:04	P NO REACTION TO STIMULUS
				04-07-02	11:05	P NO REACTION TO STIMULUS
				04-08-02	11:05	P NO REACTION TO STIMULUS
				04-09-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74844-04	M	0 PPM	BEHAVIOR/CNS	04-10-02	11:35	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:50	P	NO REACTION TO STIMULUS
				04-13-02	10:35	P	NO REACTION TO STIMULUS
				04-14-02	11:04	P	NO REACTION TO STIMULUS
				04-15-02	11:05	P	NO REACTION TO STIMULUS
				04-16-02	11:05	P	NO REACTION TO STIMULUS
				04-17-02	11:20	P	NO REACTION TO STIMULUS
				04-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:40	P	NO REACTION TO STIMULUS
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS
				04-22-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:05	P	NO REACTION TO STIMULUS
				04-24-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:20	P	NO REACTION TO STIMULUS
				04-26-02	11:03	P	NO REACTION TO STIMULUS
				04-27-02	11:01	P	NO REACTION TO STIMULUS
				04-28-02	10:33	P	NO REACTION TO STIMULUS
				04-29-02	10:50	P	NO REACTION TO STIMULUS
				04-30-02	11:00	P	NO REACTION TO STIMULUS
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	NO REACTION TO STIMULUS
				05-03-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74844-04	M	0 PPM	BEHAVIOR/CNS	05-04-02	10:24	P NO REACTION TO STIMULUS
				05-05-02	10:20	P NO REACTION TO STIMULUS
				05-06-02	10:45	P NO REACTION TO STIMULUS
				05-07-02	10:50	P NO REACTION TO STIMULUS
				05-08-02	11:10	P NO REACTION TO STIMULUS
				05-09-02	11:05	P NO REACTION TO STIMULUS
				05-10-02	10:50	P NO REACTION TO STIMULUS
				05-11-02	10:05	P NO REACTION TO STIMULUS
				05-12-02	10:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P NO REACTION TO STIMULUS
				05-14-02	10:40	P NO REACTION TO STIMULUS
				05-15-02	11:00	P NO REACTION TO STIMULUS
				05-16-02	10:55	P NO REACTION TO STIMULUS
				05-17-02	10:55	P NO REACTION TO STIMULUS
				05-18-02	9:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P NO REACTION TO STIMULUS
				05-25-02	10:30	P NO REACTION TO STIMULUS
				05-26-02	10:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:05	P NO REACTION TO STIMULUS
				05-20-02	10:25	P NO REACTION TO STIMULUS
05-21-02	11:00	P NO REACTION TO STIMULUS				
05-22-02	11:03	P NO REACTION TO STIMULUS				
05-23-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
74845-03	M	0 PPM	BEHAVIOR/CNS	05-24-02	10:38	P NO REACTION TO STIMULUS
				01-06-02	11:40	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-03	M	0 PPM	BEHAVIOR/CNS	01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-03	M	0 PPM	02-03-02	10:40	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
			02-04-02	11:20	P	NO REACTION TO STIMULUS
			02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-06-02	11:35	P	NO REACTION TO STIMULUS
			02-07-02	10:50	P	NO REACTION TO STIMULUS
			02-08-02	10:50	P	NO REACTION TO STIMULUS
			02-09-02	10:19	P	NO REACTION TO STIMULUS
			02-10-02	10:26	P	NO REACTION TO STIMULUS
			02-11-02	11:05	P	NO REACTION TO STIMULUS
			02-12-02	10:50	P	NO REACTION TO STIMULUS
			02-13-02	11:25	P	NO REACTION TO STIMULUS
			02-14-02	11:05	P	NO REACTION TO STIMULUS
			02-15-02	10:50	P	NO REACTION TO STIMULUS
			02-16-02	10:45	P	NO REACTION TO STIMULUS
			02-17-02	10:45	P	NO REACTION TO STIMULUS
			02-18-02	11:15	P	NO REACTION TO STIMULUS
			02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-21-02	10:55	P	NO REACTION TO STIMULUS
			02-22-02	10:50	P	NO REACTION TO STIMULUS
			02-23-02	10:41	P	NO REACTION TO STIMULUS
			02-24-02	10:22	P	NO REACTION TO STIMULUS
			02-25-02	11:00	P	NO REACTION TO STIMULUS
			02-26-02	11:25	P	NO REACTION TO STIMULUS
			02-27-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2157 of 3891

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-03	M	0 PPM	BEHAVIOR/CNS	02-28-02	11:25	P NO REACTION TO STIMULUS
				03-01-02	11:00	P NO REACTION TO STIMULUS
				03-02-02	11:18	P NO REACTION TO STIMULUS
				03-03-02	11:36	P NO REACTION TO STIMULUS
				03-04-02	10:55	P NO REACTION TO STIMULUS
				03-05-02	10:50	P NO REACTION TO STIMULUS
				03-06-02	11:45	P NO REACTION TO STIMULUS
				03-07-02	10:45	P NO REACTION TO STIMULUS
				03-08-02	10:55	P NO REACTION TO STIMULUS
				03-09-02	10:22	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P NO REACTION TO STIMULUS
				03-11-02	10:55	P NO REACTION TO STIMULUS
				03-12-02	11:10	P NO REACTION TO STIMULUS
				03-13-02	11:55	P NO REACTION TO STIMULUS
				03-14-02	10:30	P NO REACTION TO STIMULUS
				03-15-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P NO REACTION TO STIMULUS
				03-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P NO REACTION TO STIMULUS
				03-19-02	11:33	P NO REACTION TO STIMULUS
				03-20-02	11:35	P NO REACTION TO STIMULUS
				03-21-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P NO REACTION TO STIMULUS
				03-23-02	11:15	P NO REACTION TO STIMULUS
				03-24-02	11:02	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-03	M	0 PPM	03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-26-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-27-02	11:15	P	NO REACTION TO STIMULUS
			03-28-02	11:43	P	NO REACTION TO STIMULUS
			03-29-02	12:00	P	NO REACTION TO STIMULUS
			03-30-02	12:05	P	NO REACTION TO STIMULUS
			03-31-02	10:55	P	NO REACTION TO STIMULUS
			04-01-02	12:00	P	NO REACTION TO STIMULUS
			04-02-02	11:15	P	NO REACTION TO STIMULUS
			04-03-02	11:35	P	NO REACTION TO STIMULUS
			04-04-02	11:10	P	NO REACTION TO STIMULUS
			04-05-02	11:15	P	NO REACTION TO STIMULUS
			04-06-02	11:04	P	NO REACTION TO STIMULUS
			04-07-02	11:05	P	NO REACTION TO STIMULUS
			04-08-02	11:05	P	NO REACTION TO STIMULUS
			04-09-02	11:00	P	NO REACTION TO STIMULUS
			04-11-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-10-02	11:35	P	NO REACTION TO STIMULUS
			04-12-02	10:50	P	NO REACTION TO STIMULUS
			04-13-02	10:35	P	NO REACTION TO STIMULUS
			04-14-02	11:04	P	NO REACTION TO STIMULUS
			04-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-16-02	11:05	P	NO REACTION TO STIMULUS
			04-17-02	11:20	P	NO REACTION TO STIMULUS
			04-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74845-03	M	0 PPM	BEHAVIOR/CNS	04-19-02	10:40	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS
				04-22-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:05	P	NO REACTION TO STIMULUS
				04-24-02	11:40	P	NO REACTION TO STIMULUS
				04-25-02	11:20	P	NO REACTION TO STIMULUS
				04-26-02	11:03	P	NO REACTION TO STIMULUS
				04-27-02	11:01	P	NO REACTION TO STIMULUS
				04-28-02	10:33	P	NO REACTION TO STIMULUS
				04-29-02	10:50	P	NO REACTION TO STIMULUS
				04-30-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	NO REACTION TO STIMULUS
				05-03-02	10:50	P	NO REACTION TO STIMULUS
				05-04-02	10:24	P	NO REACTION TO STIMULUS
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	NO REACTION TO STIMULUS
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	NO REACTION TO STIMULUS
				05-09-02	11:05	P	NO REACTION TO STIMULUS
				05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	NO REACTION TO STIMULUS
				05-12-02	10:05	P	NO REACTION TO STIMULUS
				05-13-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-03	M	0 PPM	BEHAVIOR/CNS	05-14-02	10:40	P	NO REACTION TO STIMULUS
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-28-02	12:30	P	NO REACTION TO STIMULUS
				05-29-02	11:00	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	NO REACTION TO STIMULUS
				05-24-02	10:38	P	NO REACTION TO STIMULUS
74854-02	M	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-02	M	0 PPM	BEHAVIOR/CNS	01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	NO REACTION TO STIMULUS
				02-03-02	10:40	P	NO REACTION TO STIMULUS
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	NO REACTION TO STIMULUS
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	NO REACTION TO STIMULUS
				02-08-02	10:50	P	NO REACTION TO STIMULUS
				02-09-02	10:19	P	NO REACTION TO STIMULUS
				02-10-02	10:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-02	M	0 PPM	BEHAVIOR/CNS	02-12-02	10:50	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-13-02	11:25	P	NO REACTION TO STIMULUS
				02-14-02	11:05	P	NO REACTION TO STIMULUS
				02-15-02	10:50	P	NO REACTION TO STIMULUS
				02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:15	P	NO REACTION TO STIMULUS
				02-19-02	10:50	P	NO REACTION TO STIMULUS
				02-20-02	11:35	P	NO REACTION TO STIMULUS
				02-21-02	10:55	P	NO REACTION TO STIMULUS
				02-22-02	10:50	P	NO REACTION TO STIMULUS
				02-23-02	10:41	P	NO REACTION TO STIMULUS
				02-24-02	10:22	P	NO REACTION TO STIMULUS
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	NO REACTION TO STIMULUS
				02-27-02	11:20	P	NO REACTION TO STIMULUS
				02-28-02	11:25	P	NO REACTION TO STIMULUS
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	NO REACTION TO STIMULUS
				03-03-02	11:36	P	NO REACTION TO STIMULUS
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	NO REACTION TO STIMULUS
				03-07-02	10:45	P	NO REACTION TO STIMULUS
				03-08-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-02	M	0 PPM	BEHAVIOR/CNS	03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	NO REACTION TO STIMULUS
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	NO REACTION TO STIMULUS
				03-13-02	11:55	P	NO REACTION TO STIMULUS
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	NO REACTION TO STIMULUS
				03-16-02	11:05	P	NO REACTION TO STIMULUS
				03-17-02	11:00	P	NO REACTION TO STIMULUS
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:35	P	NO REACTION TO STIMULUS
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:02	P	NO REACTION TO STIMULUS
				03-25-02	11:00	P	NO REACTION TO STIMULUS
				03-26-02	11:10	P	NO REACTION TO STIMULUS
				03-27-02	11:15	P	NO REACTION TO STIMULUS
				03-28-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-02	M	0 PPM	BEHAVIOR/CNS	03-31-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P NO REACTION TO STIMULUS
				04-04-02	11:10	P NO REACTION TO STIMULUS
				04-05-02	11:15	P NO REACTION TO STIMULUS
				04-06-02	11:04	P NO REACTION TO STIMULUS
				04-07-02	11:05	P NO REACTION TO STIMULUS
				04-08-02	11:05	P NO REACTION TO STIMULUS
				04-09-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P NO REACTION TO STIMULUS
				04-10-02	11:35	P NO REACTION TO STIMULUS
				04-12-02	10:50	P NO REACTION TO STIMULUS
				04-13-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:04	P NO REACTION TO STIMULUS
				04-15-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:05	P NO REACTION TO STIMULUS
				04-17-02	11:20	P NO REACTION TO STIMULUS
				04-18-02	10:50	P NO REACTION TO STIMULUS
				04-19-02	10:40	P NO REACTION TO STIMULUS
				04-20-02	10:35	P NO REACTION TO STIMULUS
				04-21-02	10:35	P NO REACTION TO STIMULUS
				04-22-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-02	M	0 PPM	BEHAVIOR/CNS			VOCALIZATION)
			04-23-02	11:05	P	NO REACTION TO STIMULUS
			04-24-02	11:40	P	NO REACTION TO STIMULUS
			04-25-02	11:20	P	NO REACTION TO STIMULUS
			04-26-02	11:03	P	NO REACTION TO STIMULUS
			04-27-02	11:01	P	NO REACTION TO STIMULUS
			04-28-02	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-30-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	10:55	P	NO REACTION TO STIMULUS
			05-03-02	10:50	P	NO REACTION TO STIMULUS
			05-04-02	10:24	P	NO REACTION TO STIMULUS
			05-05-02	10:20	P	NO REACTION TO STIMULUS
			05-06-02	10:45	P	NO REACTION TO STIMULUS
			05-07-02	10:50	P	NO REACTION TO STIMULUS
			05-08-02	11:10	P	NO REACTION TO STIMULUS
			05-09-02	11:05	P	NO REACTION TO STIMULUS
			05-10-02	10:50	P	NO REACTION TO STIMULUS
			05-11-02	10:05	P	NO REACTION TO STIMULUS
			05-12-02	10:05	P	NO REACTION TO STIMULUS
			05-13-02	11:20	P	NO REACTION TO STIMULUS
			05-14-02	10:40	P	NO REACTION TO STIMULUS
			05-15-02	11:00	P	NO REACTION TO STIMULUS
			05-16-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-02	M	0 PPM	BEHAVIOR/CNS	05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-28-02	12:30	P	NO REACTION TO STIMULUS
				05-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:38	P	NO REACTION TO STIMULUS
74867-03	M	0 PPM	BEHAVIOR/CNS	05-25-02	10:30	P	NO REACTION TO STIMULUS
				01-03-02	11:10	P	NO REACTION TO STIMULUS
				01-04-02	11:30	P	NO REACTION TO STIMULUS
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-03	M	0 PPM	BEHAVIOR/CNS	01-14-02	11:25	P	STIMULUS WAS HEARD
				01-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:09	P	NO REACTION TO STIMULUS
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-03	M	0 PPM	BEHAVIOR/CNS	02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	NO REACTION TO STIMULUS
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:19	P	NO REACTION TO STIMULUS
				02-10-02	10:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	10:50	P	NO REACTION TO STIMULUS
				02-13-02	11:25	P	NO REACTION TO STIMULUS
				02-14-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:45	P	NO REACTION TO STIMULUS
				02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:15	P	NO REACTION TO STIMULUS
				02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-03	M	0 PPM	BEHAVIOR/CNS	02-20-02	11:35	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	NO REACTION TO STIMULUS
				02-22-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P	NO REACTION TO STIMULUS
				03-01-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:36	P	NO REACTION TO STIMULUS
				03-04-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-03	M	0 PPM	BEHAVIOR/CNS	03-08-02	10:55	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	NO REACTION TO STIMULUS
				03-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-22-02	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-03	M	0 PPM	BEHAVIOR/CNS	03-23-02	11:15	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:02	P NO REACTION TO STIMULUS
				03-25-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-26-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P NO REACTION TO STIMULUS
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P NO REACTION TO STIMULUS
				04-01-02	12:00	P NO REACTION TO STIMULUS
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:10	P NO REACTION TO STIMULUS
				04-05-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-07-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-03	M	0 PPM	BEHAVIOR/CNS	04-11-02	10:50	P	STIMULUS WAS HEARD
				04-10-02	11:35	P	NO REACTION TO STIMULUS
				04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P	NO REACTION TO STIMULUS
				04-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:20	P	NO REACTION TO STIMULUS
				04-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-21-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-22-02	11:20	P	NO REACTION TO STIMULUS
				04-23-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-03	M	0 PPM	BEHAVIOR/CNS	04-27-02	11:01	P	STIMULUS WAS HEARD
				04-28-02	10:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-02-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:10	P	NO REACTION TO STIMULUS
				05-09-02	11:05	P	NO REACTION TO STIMULUS
				05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:05	P	NO REACTION TO STIMULUS
				05-13-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-03	M	0 PPM	BEHAVIOR/CNS	05-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-26-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74753-04	M	500 PPM	BEHAVIOR/CNS	05-25-02	10:30	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS	01-07-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P NO REACTION TO STIMULUS
				01-10-02	11:40	P NO REACTION TO STIMULUS
				01-11-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P NO REACTION TO STIMULUS
				01-13-02	12:16	P NO REACTION TO STIMULUS
				01-14-02	11:52	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P NO REACTION TO STIMULUS
				01-16-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:01	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS	01-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:15	P NO REACTION TO STIMULUS
				02-02-02	11:24	P NO REACTION TO STIMULUS
				02-03-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P NO REACTION TO STIMULUS
				02-05-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:24	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:31	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS	02-11-02	11:10	P NO REACTION TO STIMULUS
				02-12-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:30	P NO REACTION TO STIMULUS
				02-14-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:50	P NO REACTION TO STIMULUS
				02-17-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:40	P NO REACTION TO STIMULUS
				02-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P NO REACTION TO STIMULUS
				02-24-02	10:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P NO REACTION TO STIMULUS
				02-28-02	11:30	P NO REACTION TO STIMULUS
				03-01-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:23	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74753-04	M	500 PPM	BEHAVIOR/CNS	03-03-02	11:41	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	NO REACTION TO STIMULUS
				03-05-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74753-04	M	500 PPM	BEHAVIOR/CNS	03-20-02	11:40	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	NO REACTION TO STIMULUS
				03-22-02	11:08	P	NO REACTION TO STIMULUS
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P	NO REACTION TO STIMULUS
				03-31-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P	NO REACTION TO STIMULUS
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74753-04	M	500 PPM	BEHAVIOR/CNS	04-08-02	11:10	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:05	P	NO REACTION TO STIMULUS
				04-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P	NO REACTION TO STIMULUS
				04-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:45	P	NO REACTION TO STIMULUS
				04-20-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS			VOCALIZATION)
			04-25-02	11:25	P	NO REACTION TO STIMULUS
			04-26-02	11:08	P	NO REACTION TO STIMULUS
			04-27-02	11:06	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-28-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-29-02	11:35	P	NO REACTION TO STIMULUS
			04-30-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-04-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-05-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-06-02	10:50	P	NO REACTION TO STIMULUS
			05-07-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-09-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-10-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-11-02	10:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS	05-12-02	10:10	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:59	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P NO REACTION TO STIMULUS
				05-25-02	10:35	P NO REACTION TO STIMULUS
				05-26-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	11:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-29-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:05	P NO REACTION TO STIMULUS
				05-22-02	11:08	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74753-04	M	500 PPM	BEHAVIOR/CNS	05-23-02	10:55	P	NO REACTION TO STIMULUS
				05-24-02	10:43	P	NO REACTION TO STIMULUS
74761-09	M	500 PPM	BEHAVIOR/CNS	01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	NO REACTION TO STIMULUS
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74761-09	M	500 PPM	BEHAVIOR/CNS	01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	NO REACTION TO STIMULUS
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	NO REACTION TO STIMULUS
				02-11-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74761-09	M	500 PPM	BEHAVIOR/CNS	02-13-02	11:30	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	NO REACTION TO STIMULUS
				02-18-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	NO REACTION TO STIMULUS
				02-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74761-09	M	500 PPM	BEHAVIOR/CNS	03-02-02	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P	NO REACTION TO STIMULUS
				03-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-14-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74761-09	M	500 PPM	BEHAVIOR/CNS	03-19-02	11:38	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74761-09	M	500 PPM	BEHAVIOR/CNS	04-03-02	11:40	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	NO REACTION TO STIMULUS
				04-08-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:40	P	NO REACTION TO STIMULUS
				04-14-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74761-09	M	500 PPM	BEHAVIOR/CNS	04-19-02	10:45	P	STIMULUS WAS HEARD
				04-20-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:06	P	NO REACTION TO STIMULUS
				04-28-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:35	P	NO REACTION TO STIMULUS
				04-30-02	11:05	P	NO REACTION TO STIMULUS
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	NO REACTION TO STIMULUS
				05-03-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-04-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74761-09	M	500 PPM	BEHAVIOR/CNS	05-06-02	10:50	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-07-02	10:55	P	NO REACTION TO STIMULUS
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-10-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-12-02	10:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-25-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-26-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74761-09	M	500 PPM	BEHAVIOR/CNS	05-28-02	11:55	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
74782-04	M	500 PPM	BEHAVIOR/CNS	05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-24-02	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				01-02-02	11:08	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
01-10-02	11:40	P	NO REACTION TO STIMULUS				
01-11-02	11:15	P	NO REACTION TO STIMULUS				
01-12-02	13:08	P	NO REACTION TO STIMULUS				
01-13-02	12:16	P	NO REACTION TO STIMULUS				
01-14-02	11:52	P	NO REACTION TO STIMULUS				
01-15-02	10:55	P	NO REACTION TO STIMULUS				
01-16-02	11:14	P	NO REACTION TO STIMULUS				
01-17-02	11:00	P	NO REACTION TO STIMULUS				
01-18-02	10:50	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782-04	M	500 PPM	BEHAVIOR/CNS	01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	NO REACTION TO STIMULUS
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	NO REACTION TO STIMULUS
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	NO REACTION TO STIMULUS
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	NO REACTION TO STIMULUS
				02-11-02	11:10	P	NO REACTION TO STIMULUS
				02-12-02	10:55	P	NO REACTION TO STIMULUS
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	NO REACTION TO STIMULUS
				02-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782-04	M	500 PPM	BEHAVIOR/CNS	02-17-02	10:50	P NO REACTION TO STIMULUS
				02-18-02	11:20	P NO REACTION TO STIMULUS
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P NO REACTION TO STIMULUS
				02-21-02	11:00	P NO REACTION TO STIMULUS
				02-22-02	10:55	P NO REACTION TO STIMULUS
				02-23-02	10:56	P NO REACTION TO STIMULUS
				02-24-02	10:27	P NO REACTION TO STIMULUS
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P NO REACTION TO STIMULUS
				02-28-02	11:30	P NO REACTION TO STIMULUS
				03-01-02	11:05	P NO REACTION TO STIMULUS
				03-02-02	11:23	P NO REACTION TO STIMULUS
				03-03-02	11:41	P NO REACTION TO STIMULUS
				03-04-02	11:00	P NO REACTION TO STIMULUS
				03-05-02	10:55	P NO REACTION TO STIMULUS
				03-06-02	11:50	P NO REACTION TO STIMULUS
				03-07-02	10:50	P NO REACTION TO STIMULUS
				03-08-02	11:00	P NO REACTION TO STIMULUS
				03-09-02	10:27	P NO REACTION TO STIMULUS
				03-10-02	10:25	P NO REACTION TO STIMULUS
				03-11-02	11:00	P NO REACTION TO STIMULUS
				03-12-02	11:15	P NO REACTION TO STIMULUS
				03-13-02	12:00	P NO REACTION TO STIMULUS
				03-14-02	10:35	P NO REACTION TO STIMULUS
				03-15-02	10:40	P NO REACTION TO STIMULUS
				03-16-02	11:10	P NO REACTION TO STIMULUS
				03-17-02	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782-04	M	500 PPM	BEHAVIOR/CNS	03-18-02	11:00	P NO REACTION TO STIMULUS
				03-19-02	11:38	P NO REACTION TO STIMULUS
				03-20-02	11:40	P NO REACTION TO STIMULUS
				03-21-02	10:55	P NO REACTION TO STIMULUS
				03-22-02	11:08	P NO REACTION TO STIMULUS
				03-23-02	11:20	P NO REACTION TO STIMULUS
				03-24-02	11:07	P NO REACTION TO STIMULUS
				03-25-02	11:05	P NO REACTION TO STIMULUS
				03-26-02	11:15	P NO REACTION TO STIMULUS
				03-27-02	11:20	P NO REACTION TO STIMULUS
				03-28-02	11:48	P NO REACTION TO STIMULUS
				03-29-02	12:05	P NO REACTION TO STIMULUS
				03-30-02	12:10	P NO REACTION TO STIMULUS
				03-31-02	11:00	P NO REACTION TO STIMULUS
				04-01-02	12:05	P NO REACTION TO STIMULUS
				04-02-02	11:20	P NO REACTION TO STIMULUS
				04-03-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P NO REACTION TO STIMULUS
				04-05-02	11:20	P NO REACTION TO STIMULUS
				04-06-02	11:09	P NO REACTION TO STIMULUS
				04-07-02	11:10	P NO REACTION TO STIMULUS
				04-08-02	11:10	P NO REACTION TO STIMULUS
				04-09-02	11:05	P NO REACTION TO STIMULUS
				04-11-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P NO REACTION TO STIMULUS
				04-12-02	10:55	P NO REACTION TO STIMULUS
				04-13-02	10:40	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74782-04	M	500 PPM	BEHAVIOR/CNS	04-14-02	11:09	P	NO REACTION TO STIMULUS
				04-15-02	11:10	P	NO REACTION TO STIMULUS
				04-16-02	11:10	P	NO REACTION TO STIMULUS
				04-17-02	11:25	P	NO REACTION TO STIMULUS
				04-18-02	10:55	P	NO REACTION TO STIMULUS
				04-19-02	10:45	P	NO REACTION TO STIMULUS
				04-20-02	10:40	P	NO REACTION TO STIMULUS
				04-21-02	10:40	P	NO REACTION TO STIMULUS
				04-22-02	11:25	P	NO REACTION TO STIMULUS
				04-23-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:45	P	NO REACTION TO STIMULUS
				04-25-02	11:25	P	NO REACTION TO STIMULUS
				04-26-02	11:08	P	NO REACTION TO STIMULUS
				04-27-02	11:06	P	NO REACTION TO STIMULUS
				04-28-02	10:38	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-29-02	11:35	P	NO REACTION TO STIMULUS
				04-30-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:20	P	NO REACTION TO STIMULUS
				05-02-02	11:00	P	NO REACTION TO STIMULUS
				05-03-02	10:55	P	NO REACTION TO STIMULUS
				05-04-02	10:29	P	NO REACTION TO STIMULUS
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	NO REACTION TO STIMULUS
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74782-04	M	500 PPM	BEHAVIOR/CNS	05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-29-02	11:05	P	NO REACTION TO STIMULUS
				05-30-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	NO REACTION TO STIMULUS
74785-04	M	500 PPM	BEHAVIOR/CNS	05-24-02	10:43	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			01-09-02	11:30	P	NO REACTION TO STIMULUS
			01-10-02	11:40	P	NO REACTION TO STIMULUS
			01-11-02	11:15	P	NO REACTION TO STIMULUS
			01-12-02	13:08	P	NO REACTION TO STIMULUS
			01-13-02	12:16	P	NO REACTION TO STIMULUS
			01-14-02	11:52	P	NO REACTION TO STIMULUS
			01-15-02	10:55	P	NO REACTION TO STIMULUS
			01-16-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-17-02	11:00	P	NO REACTION TO STIMULUS
			01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-19-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-20-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-22-02	11:01	P	NO REACTION TO STIMULUS
			01-23-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-24-02	11:00	P	NO REACTION TO STIMULUS
			01-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-26-02	10:45	P	NO REACTION TO STIMULUS
			01-27-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-28-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS	01-29-02	10:55	P NO REACTION TO STIMULUS
				01-30-02	11:10	P NO REACTION TO STIMULUS
				01-31-02	11:00	P NO REACTION TO STIMULUS
				02-01-02	11:15	P NO REACTION TO STIMULUS
				02-02-02	11:24	P NO REACTION TO STIMULUS
				02-03-02	10:45	P NO REACTION TO STIMULUS
				02-04-02	11:25	P NO REACTION TO STIMULUS
				02-05-02	11:25	P NO REACTION TO STIMULUS
				02-06-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:24	P NO REACTION TO STIMULUS
				02-10-02	10:31	P NO REACTION TO STIMULUS
				02-11-02	11:10	P NO REACTION TO STIMULUS
				02-12-02	10:55	P NO REACTION TO STIMULUS
				02-13-02	11:30	P NO REACTION TO STIMULUS
				02-14-02	11:10	P NO REACTION TO STIMULUS
				02-15-02	10:55	P NO REACTION TO STIMULUS
				02-16-02	10:50	P NO REACTION TO STIMULUS
				02-17-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P NO REACTION TO STIMULUS
				02-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-22-02	10:55	P	NO REACTION TO STIMULUS
			02-23-02	10:56	P	NO REACTION TO STIMULUS
			02-24-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-25-02	11:05	P	NO REACTION TO STIMULUS
			02-26-02	11:30	P	NO REACTION TO STIMULUS
			02-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-28-02	11:30	P	NO REACTION TO STIMULUS
			03-01-02	11:05	P	NO REACTION TO STIMULUS
			03-02-02	11:23	P	NO REACTION TO STIMULUS
			03-03-02	11:41	P	NO REACTION TO STIMULUS
			03-04-02	11:00	P	NO REACTION TO STIMULUS
			03-05-02	10:55	P	NO REACTION TO STIMULUS
			03-06-02	11:50	P	NO REACTION TO STIMULUS
			03-07-02	10:50	P	NO REACTION TO STIMULUS
			03-08-02	11:00	P	NO REACTION TO STIMULUS
			03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-10-02	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-11-02	11:00	P	NO REACTION TO STIMULUS
			03-12-02	11:15	P	NO REACTION TO STIMULUS
			03-13-02	12:00	P	NO REACTION TO STIMULUS
			03-14-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-15-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-16-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS	03-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P NO REACTION TO STIMULUS
				03-19-02	11:38	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P NO REACTION TO STIMULUS
				03-21-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P NO REACTION TO STIMULUS
				03-24-02	11:07	P NO REACTION TO STIMULUS
				03-25-02	11:05	P NO REACTION TO STIMULUS
				03-26-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P NO REACTION TO STIMULUS
				03-28-02	11:48	P NO REACTION TO STIMULUS
				03-29-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P NO REACTION TO STIMULUS
				03-31-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:20	P NO REACTION TO STIMULUS
				04-03-02	11:40	P NO REACTION TO STIMULUS
				04-04-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS	04-06-02	11:09	P NO REACTION TO STIMULUS
				04-07-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P NO REACTION TO STIMULUS
				04-09-02	11:05	P NO REACTION TO STIMULUS
				04-11-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P NO REACTION TO STIMULUS
				04-12-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:09	P NO REACTION TO STIMULUS
				04-15-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P NO REACTION TO STIMULUS
				04-18-02	10:55	P NO REACTION TO STIMULUS
				04-19-02	10:45	P NO REACTION TO STIMULUS
				04-20-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74785-04	M	500 PPM	BEHAVIOR/CNS	04-25-02	11:25	P NO REACTION TO STIMULUS
				04-26-02	11:08	P NO REACTION TO STIMULUS
				04-27-02	11:06	P NO REACTION TO STIMULUS
				04-28-02	10:38	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:35	P NO REACTION TO STIMULUS
				04-30-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:20	P NO REACTION TO STIMULUS
				05-02-02	11:00	P NO REACTION TO STIMULUS
				05-03-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P NO REACTION TO STIMULUS
				05-05-02	10:25	P NO REACTION TO STIMULUS
				05-06-02	10:50	P NO REACTION TO STIMULUS
				05-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P NO REACTION TO STIMULUS
				05-09-02	11:10	P NO REACTION TO STIMULUS
				05-10-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P NO REACTION TO STIMULUS
				05-13-02	11:25	P NO REACTION TO STIMULUS
				05-14-02	10:45	P NO REACTION TO STIMULUS
				05-15-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74785-04	M	500 PPM	BEHAVIOR/CNS	05-17-02	11:00	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-29-02	11:05	P	NO REACTION TO STIMULUS
				05-30-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				74796-07	M	500 PPM	BEHAVIOR/CNS
01-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-07-02	11:25	P	NO REACTION TO STIMULUS				
01-08-02	12:00	P	NO REACTION TO STIMULUS				
01-09-02	11:30	P	NO REACTION TO STIMULUS				
01-10-02	11:40	P	NO REACTION TO STIMULUS				
01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796-07	M	500 PPM	BEHAVIOR/CNS	01-12-02	13:08	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P	NO REACTION TO STIMULUS
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-26-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796-07	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			01-30-02	11:10	P	NO REACTION TO STIMULUS
			01-31-02	11:00	P	NO REACTION TO STIMULUS
			02-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-02-02	11:24	P	NO REACTION TO STIMULUS
			02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-04-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-07-02	10:55	P	NO REACTION TO STIMULUS
			02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-09-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-11-02	11:10	P	NO REACTION TO STIMULUS
			02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-15-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796-07	M	500 PPM	BEHAVIOR/CNS	02-16-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P NO REACTION TO STIMULUS
				02-18-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P NO REACTION TO STIMULUS
				02-22-02	10:55	P NO REACTION TO STIMULUS
				02-23-02	10:56	P NO REACTION TO STIMULUS
				02-24-02	10:27	P NO REACTION TO STIMULUS
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-28-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:23	P NO REACTION TO STIMULUS
				03-03-02	11:41	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-05-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796-07	M	500 PPM	BEHAVIOR/CNS	03-08-02	11:00	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:27	P	NO REACTION TO STIMULUS
				03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:00	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-22-02	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-23-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74796-07	M	500 PPM	BEHAVIOR/CNS	03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796-07	M	500 PPM	BEHAVIOR/CNS	04-10-02	11:40	P	VOCALIZATION) NO REACTION TO STIMULUS
				04-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:09	P	NO REACTION TO STIMULUS
				04-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:40	P	NO REACTION TO STIMULUS
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:25	P	NO REACTION TO STIMULUS
				04-26-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 108

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796-07	M	500 PPM	BEHAVIOR/CNS	04-28-02	10:38	P	STIMULUS WAS HEARD
				04-29-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:05	P	NO REACTION TO STIMULUS
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74796-07	M	500 PPM	BEHAVIOR/CNS	05-14-02	10:45	P	STIMULUS WAS HEARD
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:43	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74798-04	M	500 PPM	BEHAVIOR/CNS	01-03-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-04	M	500 PPM	BEHAVIOR/CNS	01-04-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:10	P NO REACTION TO STIMULUS
				01-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P NO REACTION TO STIMULUS
				01-08-02	12:00	P NO REACTION TO STIMULUS
				01-09-02	11:30	P NO REACTION TO STIMULUS
				01-10-02	11:40	P NO REACTION TO STIMULUS
				01-11-02	11:15	P NO REACTION TO STIMULUS
				01-12-02	13:08	P NO REACTION TO STIMULUS
				01-13-02	12:16	P NO REACTION TO STIMULUS
				01-14-02	11:52	P NO REACTION TO STIMULUS
				01-15-02	10:55	P NO REACTION TO STIMULUS
				01-16-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P NO REACTION TO STIMULUS
				01-19-02	10:35	P NO REACTION TO STIMULUS
				01-20-02	10:55	P NO REACTION TO STIMULUS
				01-21-02	11:10	P NO REACTION TO STIMULUS
				01-22-02	11:01	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P NO REACTION TO STIMULUS
				01-24-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74798-04	M	500 PPM	BEHAVIOR/CNS	01-27-02	10:25	P	STIMULUS WAS HEARD
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-11-02	11:10	P	NO REACTION TO STIMULUS
				02-12-02	10:55	P	NO REACTION TO STIMULUS
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74798-04	M	500 PPM	BEHAVIOR/CNS	02-16-02	10:50	P	STIMULUS WAS HEARD
				02-17-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P	NO REACTION TO STIMULUS
				02-19-02	10:55	P	NO REACTION TO STIMULUS
				02-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	NO REACTION TO STIMULUS
				02-23-02	10:56	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	NO REACTION TO STIMULUS
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:23	P	NO REACTION TO STIMULUS
				03-03-02	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-04	M	500 PPM	BEHAVIOR/CNS	03-06-02	11:50	P NO REACTION TO STIMULUS
				03-07-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:00	P NO REACTION TO STIMULUS
				03-09-02	10:27	P NO REACTION TO STIMULUS
				03-10-02	10:25	P NO REACTION TO STIMULUS
				03-11-02	11:00	P NO REACTION TO STIMULUS
				03-12-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:00	P NO REACTION TO STIMULUS
				03-14-02	10:35	P NO REACTION TO STIMULUS
				03-15-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:05	P NO REACTION TO STIMULUS
				03-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:38	P NO REACTION TO STIMULUS
				03-20-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P NO REACTION TO STIMULUS
				03-24-02	11:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-04	M	500 PPM	BEHAVIOR/CNS	03-26-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	NO REACTION TO STIMULUS
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P	NO REACTION TO STIMULUS
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-04	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-13-02	10:40	P	NO REACTION TO STIMULUS
			04-14-02	11:09	P	NO REACTION TO STIMULUS
			04-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-16-02	11:10	P	NO REACTION TO STIMULUS
			04-17-02	11:25	P	NO REACTION TO STIMULUS
			04-18-02	10:55	P	NO REACTION TO STIMULUS
			04-19-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-20-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-22-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-23-02	11:10	P	NO REACTION TO STIMULUS
			04-24-02	11:45	P	NO REACTION TO STIMULUS
			04-25-02	11:25	P	NO REACTION TO STIMULUS
			04-26-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-27-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:38	P	NO REACTION TO STIMULUS
			04-29-02	11:35	P	NO REACTION TO STIMULUS
			04-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74798-04	M	500 PPM	BEHAVIOR/CNS	05-03-02	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P	NO REACTION TO STIMULUS
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74798-04	M	500 PPM	BEHAVIOR/CNS	05-20-02	10:30	P	STIMULUS WAS HEARD
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:55	P	NO REACTION TO STIMULUS
				05-24-02	10:43	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74802-05	M	500 PPM	BEHAVIOR/CNS	01-03-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-05	M	500 PPM	BEHAVIOR/CNS	01-15-02	10:55	P NO REACTION TO STIMULUS
				01-16-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P NO REACTION TO STIMULUS
				01-20-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:01	P NO REACTION TO STIMULUS
				01-23-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:00	P NO REACTION TO STIMULUS
				01-25-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:45	P NO REACTION TO STIMULUS
				01-27-02	10:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P NO REACTION TO STIMULUS
				01-29-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-05	M	500 PPM	BEHAVIOR/CNS	02-02-02	11:24	P	STIMULUS WAS HEARD
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-06-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				02-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-09-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-17-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-05	M	500 PPM	BEHAVIOR/CNS	02-18-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	NO REACTION TO STIMULUS
				02-27-02	11:25	P	NO REACTION TO STIMULUS
				02-28-02	11:30	P	NO REACTION TO STIMULUS
				03-01-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:23	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-05	M	500 PPM	BEHAVIOR/CNS	03-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	NO REACTION TO STIMULUS
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-05	M	500 PPM	BEHAVIOR/CNS	03-24-02	11:07	P	STIMULUS WAS HEARD
				03-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:20	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P	NO REACTION TO STIMULUS
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	NO REACTION TO STIMULUS
04-08-02	11:10	P	NO REACTION TO STIMULUS				
04-09-02	11:05	P	NO REACTION TO STIMULUS				
04-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-05	M	500 PPM	BEHAVIOR/CNS	04-10-02	11:40	P VOCALIZATION) NO REACTION TO STIMULUS
				04-12-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:09	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P NO REACTION TO STIMULUS
				04-18-02	10:55	P NO REACTION TO STIMULUS
				04-19-02	10:45	P NO REACTION TO STIMULUS
				04-20-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-22-02	11:25	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:08	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:06	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-05	M	500 PPM	BEHAVIOR/CNS	04-28-02	10:38	P	NO REACTION TO STIMULUS
				04-29-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P	NO REACTION TO STIMULUS
				05-05-02	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-05	M	500 PPM	BEHAVIOR/CNS	05-15-02	11:05	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-16-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				05-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
			STIMULUS WAS HEARD				
05-28-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-21-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				
			VOCALIZATION)				
05-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-23-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
74802-08	M	500 PPM	BEHAVIOR/CNS	05-24-02	10:43	P	NO REACTION TO STIMULUS
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	01-06-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-08	M	500 PPM	BEHAVIOR/CNS	02-10-02	10:31	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P	NO REACTION TO STIMULUS
				02-19-02	10:55	P	NO REACTION TO STIMULUS
				02-20-02	11:40	P	NO REACTION TO STIMULUS
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	02-26-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P	NO REACTION TO STIMULUS
				03-02-02	11:23	P	NO REACTION TO STIMULUS
				03-03-02	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	03-16-02	11:10	P VOCALIZATION)
				03-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:38	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P NO REACTION TO STIMULUS
				03-23-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:15	P NO REACTION TO STIMULUS
				03-27-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P NO REACTION TO STIMULUS
				03-29-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-08	M	500 PPM	BEHAVIOR/CNS	04-01-02	12:05	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				04-02-02	11:20	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	NO REACTION TO STIMULUS
				04-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:09	P	NO REACTION TO STIMULUS
				04-15-02	11:10	P	NO REACTION TO STIMULUS
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	04-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:10	P	NO REACTION TO STIMULUS
				04-24-02	11:45	P	NO REACTION TO STIMULUS
				04-25-02	11:25	P	NO REACTION TO STIMULUS
				04-26-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:38	P	NO REACTION TO STIMULUS
				04-29-02	11:35	P	NO REACTION TO STIMULUS
				04-30-02	11:05	P	NO REACTION TO STIMULUS
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	NO REACTION TO STIMULUS
				05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	NO REACTION TO STIMULUS
				05-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74802-08	M	500 PPM	BEHAVIOR/CNS	05-09-02	11:10	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74802-08	M	500 PPM	BEHAVIOR/CNS	05-23-02	10:55	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74838-06	M	500 PPM	BEHAVIOR/CNS	01-02-02	11:08	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838-06	M	500 PPM	BEHAVIOR/CNS	01-20-02	10:55	P	STIMULUS WAS HEARD
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	NO REACTION TO STIMULUS
				02-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838-06	M	500 PPM	BEHAVIOR/CNS	02-09-02	10:24	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P	NO REACTION TO STIMULUS
				02-19-02	10:55	P	NO REACTION TO STIMULUS
				02-20-02	11:40	P	NO REACTION TO STIMULUS
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-23-02	10:56	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-06	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-26-02	11:30	P	NO REACTION TO STIMULUS
			02-27-02	11:25	P	NO REACTION TO STIMULUS
			02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-01-02	11:05	P	NO REACTION TO STIMULUS
			03-02-02	11:23	P	NO REACTION TO STIMULUS
			03-03-02	11:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-04-02	11:00	P	NO REACTION TO STIMULUS
			03-05-02	10:55	P	NO REACTION TO STIMULUS
			03-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-08-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-13-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-14-02	10:35	P	NO REACTION TO STIMULUS
			03-15-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-06	M	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-16-02	11:10	P	NO REACTION TO STIMULUS
			03-17-02	11:05	P	NO REACTION TO STIMULUS
			03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-19-02	11:38	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-22-02	11:08	P	NO REACTION TO STIMULUS
			03-23-02	11:20	P	NO REACTION TO STIMULUS
			03-24-02	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-25-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-26-02	11:15	P	NO REACTION TO STIMULUS
			03-27-02	11:20	P	NO REACTION TO STIMULUS
			03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-30-02	12:10	P	NO REACTION TO STIMULUS
			03-31-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-01-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-02-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-06	M	500 PPM	BEHAVIOR/CNS	04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	NO REACTION TO STIMULUS
				04-06-02	11:09	P	NO REACTION TO STIMULUS
				04-07-02	11:10	P	NO REACTION TO STIMULUS
				04-08-02	11:10	P	NO REACTION TO STIMULUS
				04-09-02	11:05	P	NO REACTION TO STIMULUS
				04-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:10	P	NO REACTION TO STIMULUS
				04-17-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-18-02	10:55	P	NO REACTION TO STIMULUS
				04-19-02	10:45	P	NO REACTION TO STIMULUS
				04-20-02	10:40	P	NO REACTION TO STIMULUS
				04-21-02	10:40	P	NO REACTION TO STIMULUS
				04-22-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838-06	M	500 PPM	BEHAVIOR/CNS	04-25-02	11:25	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:08	P	NO REACTION TO STIMULUS
				04-27-02	11:06	P	NO REACTION TO STIMULUS
				04-28-02	10:38	P	NO REACTION TO STIMULUS
				04-29-02	11:35	P	NO REACTION TO STIMULUS
				04-30-02	11:05	P	NO REACTION TO STIMULUS
				05-01-02	11:20	P	NO REACTION TO STIMULUS
				05-02-02	11:00	P	NO REACTION TO STIMULUS
				05-03-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-04-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74838-06	M	500 PPM	BEHAVIOR/CNS	05-16-02	11:00	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS				
				05-17-02	11:00	P	NO REACTION TO STIMULUS				
				05-18-02	9:59	P	NO REACTION TO STIMULUS				
				05-19-02	10:01	P	NO REACTION TO STIMULUS				
				05-25-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-26-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-27-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-20-02	10:30	P	NO REACTION TO STIMULUS				
				05-21-02	11:05	P	NO REACTION TO STIMULUS				
				05-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-23-02	10:55	P	NO REACTION TO STIMULUS				
				05-24-02	10:43	P	NO REACTION TO STIMULUS				
				74869-02	M	500 PPM	BEHAVIOR/CNS	01-03-02	11:15	P	NO REACTION TO STIMULUS
								01-04-02	11:35	P	NO REACTION TO STIMULUS
01-05-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-06-02	11:45	P	NO REACTION TO STIMULUS								
01-07-02	11:25	P	NO REACTION TO STIMULUS								
01-08-02	12:00	P	NO REACTION TO STIMULUS								
01-09-02	11:30	P	NO REACTION TO STIMULUS								
01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-12-02	13:08	P	NO REACTION TO STIMULUS								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-02	M	500 PPM	BEHAVIOR/CNS	01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74869-02	M	500 PPM	BEHAVIOR/CNS	01-31-02	11:00	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	NO REACTION TO STIMULUS
				02-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	NO REACTION TO STIMULUS
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-02	M	500 PPM	BEHAVIOR/CNS	02-18-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P NO REACTION TO STIMULUS
				02-24-02	10:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:30	P NO REACTION TO STIMULUS
				03-01-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:23	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:00	P NO REACTION TO STIMULUS
				03-05-02	10:55	P NO REACTION TO STIMULUS
				03-06-02	11:50	P NO REACTION TO STIMULUS
				03-07-02	10:50	P NO REACTION TO STIMULUS
				03-08-02	11:00	P NO REACTION TO STIMULUS
				03-09-02	10:27	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74869-02	M	500 PPM	BEHAVIOR/CNS	03-10-02	10:25	P	STIMULUS WAS HEARD
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74869-02	M	500 PPM	BEHAVIOR/CNS	03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-30-02	12:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:20	P	NO REACTION TO STIMULUS
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	NO REACTION TO STIMULUS
				04-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:40	P	NO REACTION TO STIMULUS
				04-14-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74869-02	M	BEHAVIOR/CNS	04-15-02	11:10	P	STIMULUS WAS HEARD			
						NO REACTION TO STIMULUS			
						04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						04-17-02	11:25	P	NO REACTION TO STIMULUS
						04-18-02	10:55	P	NO REACTION TO STIMULUS
						04-19-02	10:45	P	NO REACTION TO STIMULUS
						04-20-02	10:40	P	NO REACTION TO STIMULUS
						04-21-02	10:40	P	NO REACTION TO STIMULUS
						04-22-02	11:25	P	NO REACTION TO STIMULUS
						04-23-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						04-24-02	11:45	P	NO REACTION TO STIMULUS
						04-25-02	11:25	P	NO REACTION TO STIMULUS
						04-26-02	11:08	P	NO REACTION TO STIMULUS
						04-27-02	11:06	P	NO REACTION TO STIMULUS
						04-28-02	10:38	P	NO REACTION TO STIMULUS
						04-29-02	11:35	P	NO REACTION TO STIMULUS
						04-30-02	11:05	P	NO REACTION TO STIMULUS
						05-01-02	11:20	P	NO REACTION TO STIMULUS
						05-02-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
05-04-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)						
05-05-02	10:25	P	NO REACTION TO STIMULUS						
05-06-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
05-07-02	10:55	P	NO REACTION TO STIMULUS						

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-02	M	500 PPM	BEHAVIOR/CNS	05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:43	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	NO REACTION TO STIMULUS
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	NO REACTION TO STIMULUS
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:29	P	NO REACTION TO STIMULUS
				02-10-02	10:36	P	NO REACTION TO STIMULUS
				02-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:00	P	NO REACTION TO STIMULUS
				02-13-02	11:35	P	NO REACTION TO STIMULUS
				02-14-02	11:15	P	NO REACTION TO STIMULUS
				02-15-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:32	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	NO REACTION TO STIMULUS
				02-26-02	11:35	P	NO REACTION TO STIMULUS
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	NO REACTION TO STIMULUS
				03-04-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	03-07-02	10:55	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				03-08-02	11:05	P	NO REACTION TO STIMULUS
				03-09-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P	NO REACTION TO STIMULUS
				03-12-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:45	P	NO REACTION TO STIMULUS
				03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	03-24-02	11:12	P	STIMULUS WAS HEARD
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P	NO REACTION TO STIMULUS
				04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:25	P	NO REACTION TO STIMULUS
				04-06-02	11:14	P	NO REACTION TO STIMULUS
				04-07-02	11:15	P	NO REACTION TO STIMULUS
				04-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	04-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	NO REACTION TO STIMULUS
				04-14-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	NO REACTION TO STIMULUS
				04-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:15	P	NO REACTION TO STIMULUS
				04-24-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:30	P	NO REACTION TO STIMULUS
				04-26-02	11:13	P	NO REACTION TO STIMULUS
				04-27-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	04-28-02	10:43	P	STIMULUS WAS HEARD
				04-29-02	10:55	P	NO REACTION TO STIMULUS
				04-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:05	P	NO REACTION TO STIMULUS
				05-03-02	11:00	P	NO REACTION TO STIMULUS
				05-04-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:30	P	NO REACTION TO STIMULUS
				05-06-02	10:55	P	NO REACTION TO STIMULUS
				05-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P	NO REACTION TO STIMULUS
				05-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-12-02	10:15	P	NO REACTION TO STIMULUS
				05-13-02	11:30	P	NO REACTION TO STIMULUS
				05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
05-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
05-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-04	M	1000 PPM	BEHAVIOR/CNS	05-17-02	11:05	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
			STIMULUS WAS HEARD				
05-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-23-02	11:00	P	NO REACTION TO STIMULUS				
05-24-02	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)				
74743-04	M	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
			STIMULUS WAS HEARD				
01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743-04	M	1000 PPM	BEHAVIOR/CNS	01-13-02	12:21	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	NO REACTION TO STIMULUS
				01-29-02	11:00	P	NO REACTION TO STIMULUS
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743-04	M	1000 PPM	BEHAVIOR/CNS	02-05-02	11:30	P NO REACTION TO STIMULUS
				02-06-02	11:45	P NO REACTION TO STIMULUS
				02-07-02	11:00	P NO REACTION TO STIMULUS
				02-08-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P NO REACTION TO STIMULUS
				02-10-02	10:36	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P NO REACTION TO STIMULUS
				02-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:15	P NO REACTION TO STIMULUS
				02-15-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P NO REACTION TO STIMULUS
				02-20-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-24-02	10:32	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743-04	M	1000 PPM	BEHAVIOR/CNS	02-26-02	11:35	P	STIMULUS WAS HEARD
				02-27-02	11:30	P	NO REACTION TO STIMULUS
				02-28-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:10	P	NO REACTION TO STIMULUS
				03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	NO REACTION TO STIMULUS
				03-04-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:55	P	NO REACTION TO STIMULUS
				03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P	NO REACTION TO STIMULUS
				03-11-02	11:05	P	NO REACTION TO STIMULUS
				03-12-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:05	P	NO REACTION TO STIMULUS
				03-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
03-15-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
03-17-02	11:10	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74743-04	M	1000 PPM	BEHAVIOR/CNS	03-18-02	11:05	P	NO REACTION TO STIMULUS
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	NO REACTION TO STIMULUS
				03-21-02	11:00	P	NO REACTION TO STIMULUS
				03-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	NO REACTION TO STIMULUS
				03-30-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	NO REACTION TO STIMULUS
				04-03-02	11:45	P	NO REACTION TO STIMULUS
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:14	P	NO REACTION TO STIMULUS
				04-07-02	11:15	P	NO REACTION TO STIMULUS
				04-08-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743-04	M	1000 PPM	BEHAVIOR/CNS	04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	NO REACTION TO STIMULUS
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P	NO REACTION TO STIMULUS
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	NO REACTION TO STIMULUS
				04-22-02	11:30	P	NO REACTION TO STIMULUS
				04-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:30	P	NO REACTION TO STIMULUS
				04-26-02	11:13	P	NO REACTION TO STIMULUS
				04-27-02	11:11	P	NO REACTION TO STIMULUS
				04-28-02	10:43	P	NO REACTION TO STIMULUS
				04-29-02	10:55	P	NO REACTION TO STIMULUS
				04-30-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743-04	M	1000 PPM	BEHAVIOR/CNS	05-01-02	11:25	P NO REACTION TO STIMULUS
				05-02-02	11:05	P NO REACTION TO STIMULUS
				05-03-02	11:00	P NO REACTION TO STIMULUS
				05-04-02	10:35	P NO REACTION TO STIMULUS
				05-05-02	10:30	P NO REACTION TO STIMULUS
				05-06-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:15	P NO REACTION TO STIMULUS
				05-10-02	11:00	P NO REACTION TO STIMULUS
				05-11-02	10:15	P NO REACTION TO STIMULUS
				05-12-02	10:15	P NO REACTION TO STIMULUS
				05-13-02	11:30	P NO REACTION TO STIMULUS
				05-14-02	10:50	P NO REACTION TO STIMULUS
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P NO REACTION TO STIMULUS
				05-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P NO REACTION TO STIMULUS
				05-19-02	10:07	P NO REACTION TO STIMULUS
				05-25-02	10:40	P NO REACTION TO STIMULUS
				05-26-02	10:35	P NO REACTION TO STIMULUS
				05-27-02	10:15	P NO REACTION TO STIMULUS
				05-28-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-29-02	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74743-04	M	1000 PPM	BEHAVIOR/CNS	05-30-02	11:14	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:48	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74748-02	M	1000 PPM	BEHAVIOR/CNS	01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74748-02	M	1000 PPM	BEHAVIOR/CNS	01-22-02	11:06	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:00	P	NO REACTION TO STIMULUS
				01-29-02	11:00	P	NO REACTION TO STIMULUS
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	NO REACTION TO STIMULUS
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P	NO REACTION TO STIMULUS
				02-10-02	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74748-02	M	1000 PPM	BEHAVIOR/CNS	02-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P NO REACTION TO STIMULUS
				02-15-02	11:00	P NO REACTION TO STIMULUS
				02-16-02	10:55	P NO REACTION TO STIMULUS
				02-17-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P NO REACTION TO STIMULUS
				02-20-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-24-02	10:32	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-25-02	11:10	P NO REACTION TO STIMULUS
				02-26-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:30	P NO REACTION TO STIMULUS
				02-28-02	11:35	P NO REACTION TO STIMULUS
				03-01-02	11:10	P NO REACTION TO STIMULUS
				03-02-02	11:28	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:46	P NO REACTION TO STIMULUS
				03-04-02	11:05	P NO REACTION TO STIMULUS
				03-05-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74748-02	M	1000 PPM	BEHAVIOR/CNS	03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P	NO REACTION TO STIMULUS
				03-12-02	11:20	P	NO REACTION TO STIMULUS
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:00	P	NO REACTION TO STIMULUS
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74748-02	M	1000 PPM	BEHAVIOR/CNS	03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P	NO REACTION TO STIMULUS
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	NO REACTION TO STIMULUS
				04-03-02	11:45	P	NO REACTION TO STIMULUS
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	NO REACTION TO STIMULUS
				04-06-02	11:14	P	NO REACTION TO STIMULUS
				04-07-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	NO REACTION TO STIMULUS
				04-12-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74748-02	M	1000 PPM	BEHAVIOR/CNS	04-16-02	11:15	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:30	P	NO REACTION TO STIMULUS
				04-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P	NO REACTION TO STIMULUS
				04-23-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-26-02	11:13	P	NO REACTION TO STIMULUS
				04-27-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:10	P	NO REACTION TO STIMULUS
				05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74748-02	M	1000 PPM	BEHAVIOR/CNS	05-04-02	10:35	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:30	P	NO REACTION TO STIMULUS
				05-06-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-07-02	11:00	P	NO REACTION TO STIMULUS
				05-08-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	NO REACTION TO STIMULUS
				05-11-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:15	P	NO REACTION TO STIMULUS
				05-13-02	11:30	P	NO REACTION TO STIMULUS
				05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	NO REACTION TO STIMULUS
				05-17-02	11:05	P	NO REACTION TO STIMULUS
				05-18-02	10:04	P	NO REACTION TO STIMULUS
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	NO REACTION TO STIMULUS
				05-29-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74748-02	M	1000 PPM	BEHAVIOR/CNS	05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	NO REACTION TO STIMULUS
74752-05	M	1000 PPM	BEHAVIOR/CNS	01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:21	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74752-05	M	1000 PPM	BEHAVIOR/CNS	01-19-02	10:40	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	NO REACTION TO STIMULUS
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74752-05	M	1000 PPM	BEHAVIOR/CNS	02-07-02	11:00	P	STIMULUS WAS HEARD
				02-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-10-02	10:36	P	NO REACTION TO STIMULUS
				02-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:00	P	NO REACTION TO STIMULUS
				02-13-02	11:35	P	NO REACTION TO STIMULUS
				02-14-02	11:15	P	NO REACTION TO STIMULUS
				02-15-02	11:00	P	NO REACTION TO STIMULUS
				02-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	NO REACTION TO STIMULUS
				02-22-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:32	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74752-05	M	1000 PPM	BEHAVIOR/CNS	02-26-02	11:35	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS
				03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:32	P	NO REACTION TO STIMULUS
				03-10-02	10:30	P	NO REACTION TO STIMULUS
				03-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74752-05	M	1000 PPM	BEHAVIOR/CNS	03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	NO REACTION TO STIMULUS
				03-18-02	11:05	P	NO REACTION TO STIMULUS
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	NO REACTION TO STIMULUS
				03-21-02	11:00	P	NO REACTION TO STIMULUS
				03-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74752-05	M	1000 PPM	BEHAVIOR/CNS	04-03-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:14	P NO REACTION TO STIMULUS
				04-07-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:15	P NO REACTION TO STIMULUS
				04-09-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P NO REACTION TO STIMULUS
				04-10-02	11:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-12-02	11:00	P NO REACTION TO STIMULUS
				04-13-02	10:45	P NO REACTION TO STIMULUS
				04-14-02	11:14	P NO REACTION TO STIMULUS
				04-15-02	11:15	P NO REACTION TO STIMULUS
				04-16-02	11:15	P NO REACTION TO STIMULUS
				04-17-02	11:30	P NO REACTION TO STIMULUS
				04-18-02	11:00	P NO REACTION TO STIMULUS
				04-19-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-21-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74752-05	M	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-23-02	11:15	P	NO REACTION TO STIMULUS
			04-24-02	11:50	P	NO REACTION TO STIMULUS
			04-25-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-26-02	11:13	P	NO REACTION TO STIMULUS
			04-27-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:43	P	NO REACTION TO STIMULUS
			04-29-02	10:55	P	NO REACTION TO STIMULUS
			04-30-02	11:10	P	NO REACTION TO STIMULUS
			05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	11:05	P	NO REACTION TO STIMULUS
			05-03-02	11:00	P	NO REACTION TO STIMULUS
			05-04-02	10:35	P	NO REACTION TO STIMULUS
			05-05-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-06-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-07-02	11:00	P	NO REACTION TO STIMULUS
			05-08-02	11:20	P	NO REACTION TO STIMULUS
			05-09-02	11:15	P	NO REACTION TO STIMULUS
			05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-11-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-12-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-13-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74752-05	M	1000 PPM	BEHAVIOR/CNS	05-14-02	10:50	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:40	P NO REACTION TO STIMULUS
				05-26-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:15	P NO REACTION TO STIMULUS
				05-28-02	12:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-29-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:10	P NO REACTION TO STIMULUS
				05-22-02	11:13	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-23-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:48	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74795-06	M	1000 PPM	BEHAVIOR/CNS	01-05-02	12:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74795-06	M	1000 PPM	BEHAVIOR/CNS	01-06-02	11:50	P NO REACTION TO STIMULUS
				01-07-02	11:30	P NO REACTION TO STIMULUS
				01-08-02	12:05	P NO REACTION TO STIMULUS
				01-09-02	11:35	P NO REACTION TO STIMULUS
				01-10-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:13	P NO REACTION TO STIMULUS
				01-13-02	12:21	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P NO REACTION TO STIMULUS
				01-16-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P NO REACTION TO STIMULUS
				01-21-02	11:15	P NO REACTION TO STIMULUS
				01-22-02	11:06	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74795-06	M	1000 PPM	BEHAVIOR/CNS	01-25-02	11:05	P	STIMULUS WAS HEARD
				01-26-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	NO REACTION TO STIMULUS
				01-30-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:05	P	NO REACTION TO STIMULUS
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	NO REACTION TO STIMULUS
				02-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74795-06	M	1000 PPM	BEHAVIOR/CNS	02-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	NO REACTION TO STIMULUS
				02-18-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:00	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:35	P	NO REACTION TO STIMULUS
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74795-06	M	1000 PPM	BEHAVIOR/CNS	03-02-02	11:28	P NO REACTION TO STIMULUS
				03-03-02	11:46	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:55	P NO REACTION TO STIMULUS
				03-08-02	11:05	P NO REACTION TO STIMULUS
				03-09-02	10:32	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P NO REACTION TO STIMULUS
				03-12-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-17-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74795-06	M	1000 PPM	BEHAVIOR/CNS			VOCALIZATION)
			03-19-02	11:43	P	NO REACTION TO STIMULUS
			03-20-02	11:45	P	NO REACTION TO STIMULUS
			03-21-02	11:00	P	NO REACTION TO STIMULUS
			03-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-23-02	11:25	P	NO REACTION TO STIMULUS
			03-24-02	11:12	P	NO REACTION TO STIMULUS
			03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-26-02	11:20	P	NO REACTION TO STIMULUS
			03-27-02	11:25	P	NO REACTION TO STIMULUS
			03-28-02	11:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-29-02	12:10	P	NO REACTION TO STIMULUS
			03-30-02	12:15	P	NO REACTION TO STIMULUS
			03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-01-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-02-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-05-02	11:25	P	NO REACTION TO STIMULUS
			04-06-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-07-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74795-06	M	1000 PPM	BEHAVIOR/CNS	04-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:45	P	NO REACTION TO STIMULUS
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:30	P	NO REACTION TO STIMULUS
				04-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	NO REACTION TO STIMULUS
				04-22-02	11:30	P	NO REACTION TO STIMULUS
				04-23-02	11:15	P	NO REACTION TO STIMULUS
				04-24-02	11:50	P	NO REACTION TO STIMULUS
				04-25-02	11:30	P	NO REACTION TO STIMULUS
				04-26-02	11:13	P	NO REACTION TO STIMULUS
				04-27-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74795-06	M	1000 PPM	BEHAVIOR/CNS	04-29-02	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:10	P	NO REACTION TO STIMULUS
				05-01-02	11:25	P	NO REACTION TO STIMULUS
				05-02-02	11:05	P	NO REACTION TO STIMULUS
				05-03-02	11:00	P	NO REACTION TO STIMULUS
				05-04-02	10:35	P	NO REACTION TO STIMULUS
				05-05-02	10:30	P	NO REACTION TO STIMULUS
				05-06-02	10:55	P	NO REACTION TO STIMULUS
				05-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:15	P	NO REACTION TO STIMULUS
				05-12-02	10:15	P	NO REACTION TO STIMULUS
				05-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74795-06	M	1000 PPM	BEHAVIOR/CNS	05-19-02	10:07	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
74821-02	M	1000 PPM	BEHAVIOR/CNS				STIMULUS WAS HEARD
				05-24-02	10:48	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
01-19-02	10:40	P	NO REACTION TO STIMULUS				
01-20-02	11:00	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-02	M	1000 PPM	BEHAVIOR/CNS	01-21-02	11:15	P NO REACTION TO STIMULUS
				01-22-02	11:06	P NO REACTION TO STIMULUS
				01-23-02	11:13	P NO REACTION TO STIMULUS
				01-24-02	11:05	P NO REACTION TO STIMULUS
				01-25-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P NO REACTION TO STIMULUS
				01-27-02	10:30	P NO REACTION TO STIMULUS
				01-28-02	11:00	P NO REACTION TO STIMULUS
				01-29-02	11:00	P NO REACTION TO STIMULUS
				01-30-02	11:15	P NO REACTION TO STIMULUS
				01-31-02	11:05	P NO REACTION TO STIMULUS
				02-01-02	11:20	P NO REACTION TO STIMULUS
				02-02-02	11:29	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:30	P NO REACTION TO STIMULUS
				02-05-02	11:30	P NO REACTION TO STIMULUS
				02-06-02	11:45	P NO REACTION TO STIMULUS
				02-07-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:00	P NO REACTION TO STIMULUS
				02-09-02	10:29	P NO REACTION TO STIMULUS
				02-10-02	10:36	P NO REACTION TO STIMULUS
				02-11-02	11:15	P NO REACTION TO STIMULUS
				02-12-02	11:00	P NO REACTION TO STIMULUS
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-02	M	1000 PPM	BEHAVIOR/CNS	02-15-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:55	P NO REACTION TO STIMULUS
				02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P NO REACTION TO STIMULUS
				02-20-02	11:45	P NO REACTION TO STIMULUS
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-24-02	10:32	P NO REACTION TO STIMULUS
				02-25-02	11:10	P NO REACTION TO STIMULUS
				02-26-02	11:35	P NO REACTION TO STIMULUS
				02-27-02	11:30	P NO REACTION TO STIMULUS
				02-28-02	11:35	P NO REACTION TO STIMULUS
				03-01-02	11:10	P NO REACTION TO STIMULUS
				03-02-02	11:28	P NO REACTION TO STIMULUS
				03-03-02	11:46	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:05	P NO REACTION TO STIMULUS
				03-05-02	11:00	P NO REACTION TO STIMULUS
				03-06-02	11:55	P NO REACTION TO STIMULUS
				03-07-02	10:55	P NO REACTION TO STIMULUS
				03-08-02	11:05	P NO REACTION TO STIMULUS
				03-09-02	10:32	P NO REACTION TO STIMULUS
				03-10-02	10:30	P NO REACTION TO STIMULUS
				03-11-02	11:05	P NO REACTION TO STIMULUS
				03-12-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74821-02	M	1000 PPM	BEHAVIOR/CNS	03-13-02	12:05	P	STIMULUS WAS HEARD
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	NO REACTION TO STIMULUS
				03-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:43	P	NO REACTION TO STIMULUS
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:00	P	NO REACTION TO STIMULUS
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	NO REACTION TO STIMULUS
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	NO REACTION TO STIMULUS
				03-30-02	12:15	P	NO REACTION TO STIMULUS
				03-31-02	11:05	P	NO REACTION TO STIMULUS
				04-01-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-02	M	1000 PPM	BEHAVIOR/CNS	04-03-02	11:45	P NO REACTION TO STIMULUS
				04-04-02	11:20	P NO REACTION TO STIMULUS
				04-05-02	11:25	P NO REACTION TO STIMULUS
				04-06-02	11:14	P NO REACTION TO STIMULUS
				04-07-02	11:15	P NO REACTION TO STIMULUS
				04-08-02	11:15	P NO REACTION TO STIMULUS
				04-09-02	11:10	P NO REACTION TO STIMULUS
				04-11-02	11:00	P NO REACTION TO STIMULUS
				04-10-02	11:45	P NO REACTION TO STIMULUS
				04-12-02	11:00	P NO REACTION TO STIMULUS
				04-13-02	10:45	P NO REACTION TO STIMULUS
				04-14-02	11:14	P NO REACTION TO STIMULUS
				04-15-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P NO REACTION TO STIMULUS
				04-17-02	11:30	P NO REACTION TO STIMULUS
				04-18-02	11:00	P NO REACTION TO STIMULUS
				04-19-02	10:50	P NO REACTION TO STIMULUS
				04-20-02	10:45	P NO REACTION TO STIMULUS
				04-21-02	10:45	P NO REACTION TO STIMULUS
				04-22-02	11:30	P NO REACTION TO STIMULUS
				04-23-02	11:15	P NO REACTION TO STIMULUS
				04-24-02	11:50	P NO REACTION TO STIMULUS
				04-25-02	11:30	P NO REACTION TO STIMULUS
				04-26-02	11:13	P NO REACTION TO STIMULUS
				04-27-02	11:11	P NO REACTION TO STIMULUS
				04-28-02	10:43	P NO REACTION TO STIMULUS
				04-29-02	10:55	P NO REACTION TO STIMULUS
				04-30-02	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-02	M	1000 PPM	BEHAVIOR/CNS	05-01-02	11:25	P NO REACTION TO STIMULUS
				05-02-02	11:05	P NO REACTION TO STIMULUS
				05-03-02	11:00	P NO REACTION TO STIMULUS
				05-04-02	10:35	P NO REACTION TO STIMULUS
				05-05-02	10:30	P NO REACTION TO STIMULUS
				05-06-02	10:55	P NO REACTION TO STIMULUS
				05-07-02	11:00	P NO REACTION TO STIMULUS
				05-08-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:15	P NO REACTION TO STIMULUS
				05-10-02	11:00	P NO REACTION TO STIMULUS
				05-11-02	10:15	P NO REACTION TO STIMULUS
				05-12-02	10:15	P NO REACTION TO STIMULUS
				05-13-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:50	P NO REACTION TO STIMULUS
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P NO REACTION TO STIMULUS
				05-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P NO REACTION TO STIMULUS
				05-25-02	10:40	P NO REACTION TO STIMULUS
				05-26-02	10:35	P NO REACTION TO STIMULUS
				05-27-02	10:15	P NO REACTION TO STIMULUS
				05-28-02	12:00	P NO REACTION TO STIMULUS
				05-20-02	10:35	P NO REACTION TO STIMULUS
				05-21-02	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74821-02	M	1000 PPM	BEHAVIOR/CNS	05-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74849-03	M	1000 PPM	BEHAVIOR/CNS	01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	NO REACTION TO STIMULUS
				01-26-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74849-03	M	1000 PPM	BEHAVIOR/CNS	01-27-02	10:30	P NO REACTION TO STIMULUS
				01-29-02	11:00	P NO REACTION TO STIMULUS
				01-30-02	11:15	P NO REACTION TO STIMULUS
				01-31-02	11:05	P NO REACTION TO STIMULUS
				02-01-02	11:20	P NO REACTION TO STIMULUS
				02-02-02	11:29	P NO REACTION TO STIMULUS
				02-03-02	10:50	P NO REACTION TO STIMULUS
				02-04-02	11:30	P NO REACTION TO STIMULUS
				02-05-02	11:30	P NO REACTION TO STIMULUS
				02-06-02	11:45	P NO REACTION TO STIMULUS
				02-07-02	11:00	P NO REACTION TO STIMULUS
				02-08-02	11:00	P NO REACTION TO STIMULUS
				02-09-02	10:29	P NO REACTION TO STIMULUS
				02-10-02	10:36	P NO REACTION TO STIMULUS
				02-11-02	11:15	P NO REACTION TO STIMULUS
				02-12-02	11:00	P NO REACTION TO STIMULUS
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P NO REACTION TO STIMULUS
				02-16-02	10:55	P NO REACTION TO STIMULUS
				02-17-02	10:55	P NO REACTION TO STIMULUS
				02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:45	P NO REACTION TO STIMULUS
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74849-03	M	1000 PPM	BEHAVIOR/CNS	02-24-02	10:32	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	NO REACTION TO STIMULUS
				02-26-02	11:35	P	NO REACTION TO STIMULUS
				02-27-02	11:30	P	NO REACTION TO STIMULUS
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS
				03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	NO REACTION TO STIMULUS
				03-04-02	11:05	P	NO REACTION TO STIMULUS
				03-05-02	11:00	P	NO REACTION TO STIMULUS
				03-06-02	11:55	P	NO REACTION TO STIMULUS
				03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P	NO REACTION TO STIMULUS
				03-10-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P	NO REACTION TO STIMULUS
				03-12-02	11:20	P	NO REACTION TO STIMULUS
				03-13-02	12:05	P	NO REACTION TO STIMULUS
				03-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:45	P	NO REACTION TO STIMULUS
				03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	NO REACTION TO STIMULUS
				03-18-02	11:05	P	NO REACTION TO STIMULUS
				03-19-02	11:43	P	NO REACTION TO STIMULUS
				03-20-02	11:45	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74849-03	M	1000 PPM	BEHAVIOR/CNS	03-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:13	P NO REACTION TO STIMULUS
				03-23-02	11:25	P NO REACTION TO STIMULUS
				03-24-02	11:12	P NO REACTION TO STIMULUS
				03-25-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P NO REACTION TO STIMULUS
				03-27-02	11:25	P NO REACTION TO STIMULUS
				03-28-02	11:53	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:10	P NO REACTION TO STIMULUS
				03-30-02	12:15	P NO REACTION TO STIMULUS
				03-31-02	11:05	P NO REACTION TO STIMULUS
				04-01-02	12:10	P NO REACTION TO STIMULUS
				04-02-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P NO REACTION TO STIMULUS
				04-04-02	11:20	P NO REACTION TO STIMULUS
				04-05-02	11:25	P NO REACTION TO STIMULUS
				04-06-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P NO REACTION TO STIMULUS
				04-08-02	11:15	P NO REACTION TO STIMULUS
				04-09-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P NO REACTION TO STIMULUS
				04-10-02	11:45	P NO REACTION TO STIMULUS
				04-12-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74849-03	M	1000 PPM	BEHAVIOR/CNS	04-13-02	10:45	P NO REACTION TO STIMULUS
				04-14-02	11:14	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P NO REACTION TO STIMULUS
				04-17-02	11:30	P NO REACTION TO STIMULUS
				04-18-02	11:00	P NO REACTION TO STIMULUS
				04-19-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:45	P NO REACTION TO STIMULUS
				04-21-02	10:45	P NO REACTION TO STIMULUS
				04-22-02	11:30	P NO REACTION TO STIMULUS
				04-23-02	11:15	P NO REACTION TO STIMULUS
				04-24-02	11:50	P NO REACTION TO STIMULUS
				04-25-02	11:30	P NO REACTION TO STIMULUS
				04-26-02	11:13	P NO REACTION TO STIMULUS
				04-27-02	11:11	P NO REACTION TO STIMULUS
				04-28-02	10:43	P NO REACTION TO STIMULUS
				04-29-02	10:55	P NO REACTION TO STIMULUS
				04-30-02	11:10	P NO REACTION TO STIMULUS
				05-01-02	11:25	P NO REACTION TO STIMULUS
				05-02-02	11:05	P NO REACTION TO STIMULUS
				05-03-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:35	P NO REACTION TO STIMULUS
				05-05-02	10:30	P NO REACTION TO STIMULUS
				05-06-02	10:55	P NO REACTION TO STIMULUS
				05-07-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74849-03	M	1000 PPM	BEHAVIOR/CNS	05-08-02	11:20	P	NO REACTION TO STIMULUS
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	NO REACTION TO STIMULUS
				05-11-02	10:15	P	NO REACTION TO STIMULUS
				05-12-02	10:15	P	NO REACTION TO STIMULUS
				05-13-02	11:30	P	NO REACTION TO STIMULUS
				05-14-02	10:50	P	NO REACTION TO STIMULUS
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	NO REACTION TO STIMULUS
				05-17-02	11:05	P	NO REACTION TO STIMULUS
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-28-02	12:00	P	NO REACTION TO STIMULUS
				05-29-02	11:10	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74850-05	M	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-05	M	1000 PPM	BEHAVIOR/CNS	01-07-02	11:30	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-05	M	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			01-27-02	10:30	P	NO REACTION TO STIMULUS
			01-28-02	11:00	P	NO REACTION TO STIMULUS
			01-29-02	11:00	P	NO REACTION TO STIMULUS
			01-30-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-02-02	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-03-02	10:50	P	NO REACTION TO STIMULUS
			02-04-02	11:30	P	NO REACTION TO STIMULUS
			02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-06-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-09-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-10-02	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-05	M	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-13-02	11:35	P	NO REACTION TO STIMULUS
			02-14-02	11:15	P	NO REACTION TO STIMULUS
			02-15-02	11:00	P	NO REACTION TO STIMULUS
			02-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-18-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-19-02	11:00	P	NO REACTION TO STIMULUS
			02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-22-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-23-02	10:51	P	NO REACTION TO STIMULUS
			02-24-02	10:32	P	NO REACTION TO STIMULUS
			02-25-02	11:10	P	NO REACTION TO STIMULUS
			02-26-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-27-02	11:30	P	NO REACTION TO STIMULUS
			02-28-02	11:35	P	NO REACTION TO STIMULUS
			03-01-02	11:10	P	NO REACTION TO STIMULUS
			03-02-02	11:28	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-03-02	11:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-04-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-05	M	1000 PPM	BEHAVIOR/CNS	03-05-02	11:00	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P	NO REACTION TO STIMULUS
				03-10-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-05	M	1000 PPM	BEHAVIOR/CNS	03-21-02	11:00	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	NO REACTION TO STIMULUS
				03-28-02	11:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-31-02	11:05	P	NO REACTION TO STIMULUS
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:25	P	NO REACTION TO STIMULUS
				04-06-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 202

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-05	M	1000 PPM	BEHAVIOR/CNS	04-08-02	11:15	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-23-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 203

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-05	M	1000 PPM	BEHAVIOR/CNS			VOCALIZATION)
			04-25-02	11:30	P	NO REACTION TO STIMULUS
			04-26-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-27-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-30-02	11:10	P	NO REACTION TO STIMULUS
			05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	11:05	P	NO REACTION TO STIMULUS
			05-03-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-04-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-05-02	10:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-06-02	10:55	P	NO REACTION TO STIMULUS
			05-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-09-02	11:15	P	NO REACTION TO STIMULUS
			05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-11-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 204

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-05	M	1000 PPM	BEHAVIOR/CNS	05-12-02	10:15	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:50	P	NO REACTION TO STIMULUS
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:05	P	NO REACTION TO STIMULUS
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-29-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
05-24-02	10:48	P	NO REACTION TO STIMULUS				
74868-02	M	1000 PPM	BEHAVIOR/CNS	01-07-02	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 205

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	NO REACTION TO STIMULUS
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	NO REACTION TO STIMULUS
				01-29-02	11:00	P	NO REACTION TO STIMULUS
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	NO REACTION TO STIMULUS
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	NO REACTION TO STIMULUS
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	NO REACTION TO STIMULUS
				02-08-02	11:00	P	NO REACTION TO STIMULUS
				02-09-02	10:29	P	NO REACTION TO STIMULUS
				02-10-02	10:36	P	NO REACTION TO STIMULUS
				02-11-02	11:15	P	NO REACTION TO STIMULUS
				02-12-02	11:00	P	NO REACTION TO STIMULUS
				02-13-02	11:35	P	NO REACTION TO STIMULUS
				02-14-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P	NO REACTION TO STIMULUS
				02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	NO REACTION TO STIMULUS
				02-18-02	11:25	P	NO REACTION TO STIMULUS
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	NO REACTION TO STIMULUS
				02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:00	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-24-02	10:32	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	NO REACTION TO STIMULUS
				02-26-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	03-01-02	11:10	P NO REACTION TO STIMULUS
				03-02-02	11:28	P NO REACTION TO STIMULUS
				03-03-02	11:46	P NO REACTION TO STIMULUS
				03-04-02	11:05	P NO REACTION TO STIMULUS
				03-05-02	11:00	P NO REACTION TO STIMULUS
				03-06-02	11:55	P NO REACTION TO STIMULUS
				03-07-02	10:55	P NO REACTION TO STIMULUS
				03-08-02	11:05	P NO REACTION TO STIMULUS
				03-09-02	10:32	P NO REACTION TO STIMULUS
				03-10-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P NO REACTION TO STIMULUS
				03-12-02	11:20	P NO REACTION TO STIMULUS
				03-13-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P NO REACTION TO STIMULUS
				03-15-02	10:45	P NO REACTION TO STIMULUS
				03-16-02	11:15	P NO REACTION TO STIMULUS
				03-17-02	11:10	P NO REACTION TO STIMULUS
				03-18-02	11:05	P NO REACTION TO STIMULUS
				03-19-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P NO REACTION TO STIMULUS
				03-21-02	11:00	P NO REACTION TO STIMULUS
				03-22-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:25	P NO REACTION TO STIMULUS
				03-24-02	11:12	P NO REACTION TO STIMULUS
				03-25-02	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	03-26-02	11:20	P NO REACTION TO STIMULUS
				03-27-02	11:25	P NO REACTION TO STIMULUS
				03-28-02	11:53	P NO REACTION TO STIMULUS
				03-29-02	12:10	P NO REACTION TO STIMULUS
				03-30-02	12:15	P NO REACTION TO STIMULUS
				03-31-02	11:05	P NO REACTION TO STIMULUS
				04-01-02	12:10	P NO REACTION TO STIMULUS
				04-02-02	11:25	P NO REACTION TO STIMULUS
				04-03-02	11:45	P NO REACTION TO STIMULUS
				04-04-02	11:20	P NO REACTION TO STIMULUS
				04-05-02	11:25	P NO REACTION TO STIMULUS
				04-06-02	11:14	P NO REACTION TO STIMULUS
				04-07-02	11:15	P NO REACTION TO STIMULUS
				04-08-02	11:15	P NO REACTION TO STIMULUS
				04-09-02	11:10	P NO REACTION TO STIMULUS
				04-11-02	11:00	P NO REACTION TO STIMULUS
				04-10-02	11:45	P NO REACTION TO STIMULUS
				04-12-02	11:00	P NO REACTION TO STIMULUS
				04-13-02	10:45	P NO REACTION TO STIMULUS
				04-14-02	11:14	P NO REACTION TO STIMULUS
				04-15-02	11:15	P NO REACTION TO STIMULUS
				04-16-02	11:15	P NO REACTION TO STIMULUS
				04-17-02	11:30	P NO REACTION TO STIMULUS
				04-18-02	11:00	P NO REACTION TO STIMULUS
				04-19-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:45	P NO REACTION TO STIMULUS
				04-21-02	10:45	P NO REACTION TO STIMULUS
				04-22-02	11:30	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	04-23-02	11:15	P NO REACTION TO STIMULUS
				04-24-02	11:50	P NO REACTION TO STIMULUS
				04-25-02	11:30	P NO REACTION TO STIMULUS
				04-26-02	11:13	P NO REACTION TO STIMULUS
				04-27-02	11:11	P NO REACTION TO STIMULUS
				04-28-02	10:43	P NO REACTION TO STIMULUS
				04-29-02	10:55	P NO REACTION TO STIMULUS
				04-30-02	11:10	P NO REACTION TO STIMULUS
				05-01-02	11:25	P NO REACTION TO STIMULUS
				05-02-02	11:05	P NO REACTION TO STIMULUS
				05-03-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:35	P NO REACTION TO STIMULUS
				05-05-02	10:30	P NO REACTION TO STIMULUS
				05-06-02	10:55	P NO REACTION TO STIMULUS
				05-07-02	11:00	P NO REACTION TO STIMULUS
				05-08-02	11:20	P NO REACTION TO STIMULUS
				05-09-02	11:15	P NO REACTION TO STIMULUS
				05-10-02	11:00	P NO REACTION TO STIMULUS
				05-11-02	10:15	P NO REACTION TO STIMULUS
				05-12-02	10:15	P NO REACTION TO STIMULUS
				05-13-02	11:30	P NO REACTION TO STIMULUS
				05-14-02	10:50	P NO REACTION TO STIMULUS
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P NO REACTION TO STIMULUS
				05-17-02	11:05	P NO REACTION TO STIMULUS
				05-18-02	10:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74868-02	M	1000 PPM	BEHAVIOR/CNS	05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
74754-09	M	2500 PPM	BEHAVIOR/CNS	05-24-02	10:48	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	NO REACTION TO STIMULUS
				01-17-02	11:10	P	NO REACTION TO STIMULUS
				01-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:05	P	NO REACTION TO STIMULUS
				01-21-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754-09	M	2500 PPM	BEHAVIOR/CNS	01-22-02	11:11	P NO REACTION TO STIMULUS
				01-23-02	11:18	P NO REACTION TO STIMULUS
				01-24-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P NO REACTION TO STIMULUS
				01-26-02	10:55	P NO REACTION TO STIMULUS
				01-27-02	10:35	P NO REACTION TO STIMULUS
				01-28-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P NO REACTION TO STIMULUS
				01-31-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:25	P NO REACTION TO STIMULUS
				02-02-02	11:34	P NO REACTION TO STIMULUS
				02-03-02	10:55	P NO REACTION TO STIMULUS
				02-04-02	11:35	P NO REACTION TO STIMULUS
				02-05-02	11:35	P NO REACTION TO STIMULUS
				02-06-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:05	P NO REACTION TO STIMULUS
				02-09-02	10:34	P NO REACTION TO STIMULUS
				02-10-02	10:41	P NO REACTION TO STIMULUS
				02-11-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74754-09	M	2500 PPM	BEHAVIOR/CNS	02-13-02	11:40	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	11:00	P	NO REACTION TO STIMULUS
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P	NO REACTION TO STIMULUS
				02-22-02	11:05	P	NO REACTION TO STIMULUS
				02-23-02	10:56	P	NO REACTION TO STIMULUS
				02-24-02	10:37	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	NO REACTION TO STIMULUS
				02-27-02	11:35	P	NO REACTION TO STIMULUS
				02-28-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	NO REACTION TO STIMULUS
				03-02-02	11:33	P	NO REACTION TO STIMULUS
				03-03-02	11:51	P	NO REACTION TO STIMULUS
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	NO REACTION TO STIMULUS
				03-06-02	12:00	P	NO REACTION TO STIMULUS
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754-09	M	2500 PPM	BEHAVIOR/CNS	03-09-02	10:37	P	NO REACTION TO STIMULUS
				03-10-02	10:35	P	NO REACTION TO STIMULUS
				03-11-02	11:10	P	NO REACTION TO STIMULUS
				03-12-02	11:25	P	NO REACTION TO STIMULUS
				03-13-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:45	P	NO REACTION TO STIMULUS
				03-15-02	10:50	P	NO REACTION TO STIMULUS
				03-16-02	11:20	P	NO REACTION TO STIMULUS
				03-17-02	11:15	P	NO REACTION TO STIMULUS
				03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:48	P	NO REACTION TO STIMULUS
				03-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:05	P	NO REACTION TO STIMULUS
				03-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:30	P	NO REACTION TO STIMULUS
				03-24-02	11:17	P	NO REACTION TO STIMULUS
				03-25-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:30	P	NO REACTION TO STIMULUS
				03-28-02	11:58	P	NO REACTION TO STIMULUS
				03-29-02	12:15	P	NO REACTION TO STIMULUS
				03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74754-09	M	2500 PPM	BEHAVIOR/CNS	04-01-02	12:15	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:30	P	NO REACTION TO STIMULUS
				04-03-02	11:50	P	NO REACTION TO STIMULUS
				04-04-02	11:25	P	NO REACTION TO STIMULUS
				04-05-02	11:30	P	NO REACTION TO STIMULUS
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	NO REACTION TO STIMULUS
				04-08-02	11:20	P	NO REACTION TO STIMULUS
				04-09-02	11:15	P	NO REACTION TO STIMULUS
				04-11-02	11:05	P	NO REACTION TO STIMULUS
				04-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:05	P	NO REACTION TO STIMULUS
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	NO REACTION TO STIMULUS
				04-15-02	11:20	P	NO REACTION TO STIMULUS
				04-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:55	P	NO REACTION TO STIMULUS
				04-20-02	10:50	P	NO REACTION TO STIMULUS
				04-21-02	10:50	P	NO REACTION TO STIMULUS
				04-22-02	11:35	P	NO REACTION TO STIMULUS
				04-23-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754-09	M	2500 PPM	BEHAVIOR/CNS	04-25-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:16	P NO REACTION TO STIMULUS
				04-28-02	10:48	P NO REACTION TO STIMULUS
				04-29-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P NO REACTION TO STIMULUS
				05-01-02	11:30	P NO REACTION TO STIMULUS
				05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P NO REACTION TO STIMULUS
				05-07-02	11:05	P NO REACTION TO STIMULUS
				05-08-02	11:25	P NO REACTION TO STIMULUS
				05-09-02	11:20	P NO REACTION TO STIMULUS
				05-10-02	11:05	P NO REACTION TO STIMULUS
				05-11-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:20	P NO REACTION TO STIMULUS
				05-13-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P NO REACTION TO STIMULUS
				05-15-02	11:15	P NO REACTION TO STIMULUS
				05-16-02	11:10	P NO REACTION TO STIMULUS
				05-17-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74754-09	M	2500 PPM	BEHAVIOR/CNS	05-18-02	10:09	P VOCALIZATION) NO REACTION TO STIMULUS
				05-19-02	10:12	P NO REACTION TO STIMULUS
				05-25-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:20	P NO REACTION TO STIMULUS
				05-28-02	12:25	P NO REACTION TO STIMULUS
				05-29-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:40	P NO REACTION TO STIMULUS
				05-21-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:18	P NO REACTION TO STIMULUS
				05-23-02	11:05	P NO REACTION TO STIMULUS
				05-24-02	10:53	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74769-07	M	2500 PPM	BEHAVIOR/CNS	01-04-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P NO REACTION TO STIMULUS
				01-07-02	11:35	P NO REACTION TO STIMULUS
				01-08-02	12:10	P NO REACTION TO STIMULUS
				01-09-02	11:40	P NO REACTION TO STIMULUS
				01-10-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:25	P NO REACTION TO STIMULUS
				01-12-02	13:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:26	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769-07	M	2500 PPM	BEHAVIOR/CNS	01-14-02	11:35	P NO REACTION TO STIMULUS
				01-15-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:24	P NO REACTION TO STIMULUS
				01-17-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P NO REACTION TO STIMULUS
				01-19-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:05	P NO REACTION TO STIMULUS
				01-21-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:11	P NO REACTION TO STIMULUS
				01-23-02	11:18	P NO REACTION TO STIMULUS
				01-24-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P NO REACTION TO STIMULUS
				01-26-02	10:55	P NO REACTION TO STIMULUS
				01-27-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74769-07	M	2500 PPM	BEHAVIOR/CNS	02-02-02	11:34	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:55	P	NO REACTION TO STIMULUS
				02-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:35	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	NO REACTION TO STIMULUS
				02-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:20	P	NO REACTION TO STIMULUS
				02-12-02	11:05	P	NO REACTION TO STIMULUS
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	11:00	P	NO REACTION TO STIMULUS
				02-18-02	11:30	P	NO REACTION TO STIMULUS
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74769-07	M	2500 PPM	BEHAVIOR/CNS	02-22-02	11:05	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:56	P	NO REACTION TO STIMULUS
				02-24-02	10:37	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:40	P	NO REACTION TO STIMULUS
				03-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:33	P	NO REACTION TO STIMULUS
				03-03-02	11:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	NO REACTION TO STIMULUS
				03-06-02	12:00	P	NO REACTION TO STIMULUS
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS
				03-09-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:25	P	NO REACTION TO STIMULUS
				03-13-02	12:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769-07	M	2500 PPM	BEHAVIOR/CNS	03-14-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:50	P	NO REACTION TO STIMULUS
				03-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:15	P	NO REACTION TO STIMULUS
				03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:48	P	NO REACTION TO STIMULUS
				03-20-02	11:50	P	NO REACTION TO STIMULUS
				03-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:18	P	NO REACTION TO STIMULUS
				03-23-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:25	P	NO REACTION TO STIMULUS
				03-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:58	P	NO REACTION TO STIMULUS
				03-29-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	NO REACTION TO STIMULUS
				04-02-02	11:30	P	NO REACTION TO STIMULUS
				04-03-02	11:50	P	NO REACTION TO STIMULUS
				04-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769-07	M	2500 PPM	BEHAVIOR/CNS	04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:20	P	NO REACTION TO STIMULUS
				04-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:05	P	NO REACTION TO STIMULUS
				04-13-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74769-07	M	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-22-02	11:35	P	NO REACTION TO STIMULUS
			04-23-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-24-02	11:55	P	NO REACTION TO STIMULUS
			04-25-02	11:35	P	NO REACTION TO STIMULUS
			04-26-02	11:18	P	NO REACTION TO STIMULUS
			04-27-02	11:16	P	NO REACTION TO STIMULUS
			04-28-02	10:48	P	NO REACTION TO STIMULUS
			04-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-30-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-01-02	11:30	P	NO REACTION TO STIMULUS
			05-02-02	11:10	P	NO REACTION TO STIMULUS
			05-03-02	11:05	P	NO REACTION TO STIMULUS
			05-04-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-05-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-06-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:25	P	NO REACTION TO STIMULUS
			05-09-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-10-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-11-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74769-07	M	2500 PPM	BEHAVIOR/CNS	05-12-02	10:20	P	STIMULUS WAS HEARD		
									NO REACTION TO STIMULUS
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT		
									STIMULUS WAS HEARD
				05-14-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT		
									STIMULUS WAS HEARD
				05-15-02	11:15	P	NO REACTION TO STIMULUS		
				05-16-02	11:10	P	NO REACTION TO STIMULUS		
				05-17-02	11:10	P	NO REACTION TO STIMULUS		
				05-18-02	10:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT		
									STIMULUS WAS HEARD
				05-19-02	10:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT		
									STIMULUS WAS HEARD
				05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT		
									STIMULUS WAS HEARD
				05-26-02	10:40	P	NO REACTION TO STIMULUS		
				05-27-02	10:20	P	NO REACTION TO STIMULUS		
05-28-02	12:25	P	NO REACTION TO STIMULUS						
05-29-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT						
					STIMULUS WAS HEARD				
05-20-02	10:40	P	NO REACTION TO STIMULUS						
05-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT						
					STIMULUS WAS HEARD				
05-22-02	11:18	P	NO REACTION TO STIMULUS						
05-23-02	11:05	P	NO REACTION TO STIMULUS						
05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT						
					STIMULUS WAS HEARD				
74786-05	M	2500 PPM	BEHAVIOR/CNS	01-05-02	12:20	P	NO REACTION TO STIMULUS		
				01-06-02	11:55	P	NO REACTION TO STIMULUS		

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-05	M	2500 PPM	BEHAVIOR/CNS	01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-19-02	10:45	P	NO REACTION TO STIMULUS
				01-20-02	11:05	P	NO REACTION TO STIMULUS
				01-21-02	11:20	P	NO REACTION TO STIMULUS
				01-22-02	11:11	P	NO REACTION TO STIMULUS
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-05	M	2500 PPM	BEHAVIOR/CNS	01-28-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P NO REACTION TO STIMULUS
				01-31-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:25	P NO REACTION TO STIMULUS
				02-02-02	11:34	P NO REACTION TO STIMULUS
				02-03-02	10:55	P NO REACTION TO STIMULUS
				02-04-02	11:35	P NO REACTION TO STIMULUS
				02-05-02	11:35	P NO REACTION TO STIMULUS
				02-06-02	11:50	P NO REACTION TO STIMULUS
				02-07-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:05	P NO REACTION TO STIMULUS
				02-09-02	10:34	P NO REACTION TO STIMULUS
				02-10-02	10:41	P NO REACTION TO STIMULUS
				02-11-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	11:05	P NO REACTION TO STIMULUS
				02-13-02	11:40	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-14-02	11:20	P NO REACTION TO STIMULUS
				02-15-02	11:05	P NO REACTION TO STIMULUS
				02-16-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	11:00	P NO REACTION TO STIMULUS
				02-18-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74786-05	M	2500 PPM	BEHAVIOR/CNS	02-19-02	11:05	P	STIMULUS WAS HEARD
				02-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-23-02	10:56	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-24-02	10:37	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:33	P	NO REACTION TO STIMULUS
				03-03-02	11:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	NO REACTION TO STIMULUS
				03-06-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-05	M	2500 PPM	BEHAVIOR/CNS	03-09-02	10:37	P	NO REACTION TO STIMULUS
				03-10-02	10:35	P	NO REACTION TO STIMULUS
				03-11-02	11:10	P	NO REACTION TO STIMULUS
				03-12-02	11:25	P	NO REACTION TO STIMULUS
				03-13-02	12:10	P	NO REACTION TO STIMULUS
				03-14-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:50	P	NO REACTION TO STIMULUS
				03-16-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-17-02	11:15	P	NO REACTION TO STIMULUS
				03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:48	P	NO REACTION TO STIMULUS
				03-20-02	11:50	P	NO REACTION TO STIMULUS
				03-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:18	P	NO REACTION TO STIMULUS
				03-23-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P	NO REACTION TO STIMULUS
				03-25-02	11:15	P	NO REACTION TO STIMULUS
				03-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-28-02	11:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-05	M	2500 PPM	BEHAVIOR/CNS	03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:50	P	NO REACTION TO STIMULUS
				04-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:30	P	NO REACTION TO STIMULUS
				04-06-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:20	P	NO REACTION TO STIMULUS
				04-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:50	P	NO REACTION TO STIMULUS
				04-12-02	11:05	P	NO REACTION TO STIMULUS
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P	NO REACTION TO STIMULUS
				04-16-02	11:20	P	NO REACTION TO STIMULUS
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74786-05	M	2500 PPM	BEHAVIOR/CNS	04-19-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:50	P NO REACTION TO STIMULUS
				04-22-02	11:35	P NO REACTION TO STIMULUS
				04-23-02	11:20	P NO REACTION TO STIMULUS
				04-24-02	11:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-25-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:18	P NO REACTION TO STIMULUS
				04-27-02	11:16	P NO REACTION TO STIMULUS
				04-28-02	10:48	P NO REACTION TO STIMULUS
				04-29-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:30	P NO REACTION TO STIMULUS
				05-02-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:05	P NO REACTION TO STIMULUS
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P NO REACTION TO STIMULUS
				05-07-02	11:05	P NO REACTION TO STIMULUS
				05-08-02	11:25	P NO REACTION TO STIMULUS
				05-09-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74786-05	M	2500 PPM	BEHAVIOR/CNS	05-11-02	10:20	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-12-02	10:20	P	NO REACTION TO STIMULUS
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-16-02	11:10	P	NO REACTION TO STIMULUS
				05-17-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-18-02	10:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:12	P	NO REACTION TO STIMULUS
				05-25-02	10:45	P	NO REACTION TO STIMULUS
				05-26-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:20	P	NO REACTION TO STIMULUS
				05-20-02	10:40	P	NO REACTION TO STIMULUS
				05-21-02	11:15	P	NO REACTION TO STIMULUS
				05-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	11:05	P	NO REACTION TO STIMULUS
				05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74822-15	M	2500 PPM	BEHAVIOR/CNS	01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS	01-07-02	11:35	P NO REACTION TO STIMULUS
				01-08-02	12:10	P NO REACTION TO STIMULUS
				01-09-02	11:40	P NO REACTION TO STIMULUS
				01-10-02	11:50	P NO REACTION TO STIMULUS
				01-11-02	11:25	P NO REACTION TO STIMULUS
				01-12-02	13:18	P NO REACTION TO STIMULUS
				01-13-02	12:26	P NO REACTION TO STIMULUS
				01-14-02	11:35	P NO REACTION TO STIMULUS
				01-15-02	11:05	P NO REACTION TO STIMULUS
				01-16-02	11:24	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:10	P NO REACTION TO STIMULUS
				01-18-02	11:00	P NO REACTION TO STIMULUS
				01-19-02	10:45	P NO REACTION TO STIMULUS
				01-20-02	11:05	P NO REACTION TO STIMULUS
				01-21-02	11:20	P NO REACTION TO STIMULUS
				01-22-02	11:11	P NO REACTION TO STIMULUS
				01-23-02	11:18	P NO REACTION TO STIMULUS
				01-24-02	11:10	P NO REACTION TO STIMULUS
				01-25-02	11:10	P NO REACTION TO STIMULUS
				01-26-02	10:55	P NO REACTION TO STIMULUS
				01-27-02	10:35	P NO REACTION TO STIMULUS
				01-28-02	11:05	P NO REACTION TO STIMULUS
				01-29-02	11:05	P NO REACTION TO STIMULUS
				01-30-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-02-02	11:34	P	NO REACTION TO STIMULUS
			02-03-02	10:55	P	NO REACTION TO STIMULUS
			02-04-02	11:35	P	NO REACTION TO STIMULUS
			02-05-02	11:35	P	NO REACTION TO STIMULUS
			02-06-02	11:50	P	NO REACTION TO STIMULUS
			02-07-02	11:05	P	NO REACTION TO STIMULUS
			02-08-02	11:05	P	NO REACTION TO STIMULUS
			02-09-02	10:34	P	NO REACTION TO STIMULUS
			02-10-02	10:41	P	NO REACTION TO STIMULUS
			02-11-02	11:20	P	NO REACTION TO STIMULUS
			02-12-02	11:05	P	NO REACTION TO STIMULUS
			02-13-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-14-02	11:20	P	NO REACTION TO STIMULUS
			02-15-02	11:05	P	NO REACTION TO STIMULUS
			02-16-02	11:00	P	NO REACTION TO STIMULUS
			02-17-02	11:00	P	NO REACTION TO STIMULUS
			02-18-02	11:30	P	NO REACTION TO STIMULUS
			02-19-02	11:05	P	NO REACTION TO STIMULUS
			02-20-02	11:50	P	NO REACTION TO STIMULUS
			02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-22-02	11:05	P	NO REACTION TO STIMULUS
			02-23-02	10:56	P	NO REACTION TO STIMULUS
			02-24-02	10:37	P	NO REACTION TO STIMULUS
			02-25-02	11:15	P	NO REACTION TO STIMULUS
			02-26-02	11:40	P	NO REACTION TO STIMULUS
			02-27-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS	02-28-02	11:40	P NO REACTION TO STIMULUS
				03-01-02	11:15	P NO REACTION TO STIMULUS
				03-02-02	11:33	P NO REACTION TO STIMULUS
				03-03-02	11:51	P NO REACTION TO STIMULUS
				03-04-02	11:10	P NO REACTION TO STIMULUS
				03-05-02	11:05	P NO REACTION TO STIMULUS
				03-06-02	12:00	P NO REACTION TO STIMULUS
				03-07-02	11:00	P NO REACTION TO STIMULUS
				03-08-02	11:10	P NO REACTION TO STIMULUS
				03-09-02	10:37	P NO REACTION TO STIMULUS
				03-10-02	10:35	P NO REACTION TO STIMULUS
				03-11-02	11:10	P NO REACTION TO STIMULUS
				03-12-02	11:25	P NO REACTION TO STIMULUS
				03-13-02	12:10	P NO REACTION TO STIMULUS
				03-14-02	10:45	P NO REACTION TO STIMULUS
				03-15-02	10:50	P NO REACTION TO STIMULUS
				03-16-02	11:20	P NO REACTION TO STIMULUS
				03-17-02	11:15	P NO REACTION TO STIMULUS
				03-18-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:48	P NO REACTION TO STIMULUS
				03-20-02	11:50	P NO REACTION TO STIMULUS
				03-21-02	11:05	P NO REACTION TO STIMULUS
				03-22-02	11:18	P NO REACTION TO STIMULUS
				03-23-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P NO REACTION TO STIMULUS
				03-25-02	11:15	P NO REACTION TO STIMULUS
				03-26-02	11:25	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS	03-27-02	11:30	P NO REACTION TO STIMULUS
				03-28-02	11:58	P NO REACTION TO STIMULUS
				03-29-02	12:15	P NO REACTION TO STIMULUS
				03-30-02	12:20	P NO REACTION TO STIMULUS
				03-31-02	11:10	P NO REACTION TO STIMULUS
				04-01-02	12:15	P NO REACTION TO STIMULUS
				04-02-02	11:30	P NO REACTION TO STIMULUS
				04-03-02	11:50	P NO REACTION TO STIMULUS
				04-04-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:30	P NO REACTION TO STIMULUS
				04-06-02	11:19	P NO REACTION TO STIMULUS
				04-07-02	11:20	P NO REACTION TO STIMULUS
				04-08-02	11:20	P NO REACTION TO STIMULUS
				04-09-02	11:15	P NO REACTION TO STIMULUS
				04-11-02	11:05	P NO REACTION TO STIMULUS
				04-10-02	11:50	P NO REACTION TO STIMULUS
				04-12-02	11:05	P NO REACTION TO STIMULUS
				04-13-02	10:50	P NO REACTION TO STIMULUS
				04-14-02	11:19	P NO REACTION TO STIMULUS
				04-15-02	11:20	P NO REACTION TO STIMULUS
				04-16-02	11:20	P NO REACTION TO STIMULUS
				04-17-02	11:35	P NO REACTION TO STIMULUS
				04-18-02	11:05	P NO REACTION TO STIMULUS
				04-19-02	10:55	P NO REACTION TO STIMULUS
				04-20-02	10:50	P NO REACTION TO STIMULUS
				04-21-02	10:50	P NO REACTION TO STIMULUS
				04-22-02	11:35	P NO REACTION TO STIMULUS
				04-23-02	11:20	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS	04-24-02	11:55	P NO REACTION TO STIMULUS
				04-25-02	11:35	P NO REACTION TO STIMULUS
				04-26-02	11:18	P NO REACTION TO STIMULUS
				04-27-02	11:16	P NO REACTION TO STIMULUS
				04-28-02	10:48	P NO REACTION TO STIMULUS
				04-29-02	11:00	P NO REACTION TO STIMULUS
				04-30-02	11:15	P NO REACTION TO STIMULUS
				05-01-02	11:30	P NO REACTION TO STIMULUS
				05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P NO REACTION TO STIMULUS
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P NO REACTION TO STIMULUS
				05-07-02	11:05	P NO REACTION TO STIMULUS
				05-08-02	11:25	P NO REACTION TO STIMULUS
				05-09-02	11:20	P NO REACTION TO STIMULUS
				05-10-02	11:05	P NO REACTION TO STIMULUS
				05-11-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:20	P NO REACTION TO STIMULUS
				05-13-02	11:35	P NO REACTION TO STIMULUS
				05-14-02	10:55	P NO REACTION TO STIMULUS
				05-15-02	11:15	P NO REACTION TO STIMULUS
				05-16-02	11:10	P NO REACTION TO STIMULUS
				05-17-02	11:10	P NO REACTION TO STIMULUS
				05-18-02	10:09	P NO REACTION TO STIMULUS
				05-19-02	10:12	P NO REACTION TO STIMULUS
				05-25-02	10:45	P NO REACTION TO STIMULUS
				05-26-02	10:40	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74822-15	M	2500 PPM	BEHAVIOR/CNS	05-27-02	10:20	P	NO REACTION TO STIMULUS
				05-20-02	10:40	P	NO REACTION TO STIMULUS
				05-21-02	11:15	P	NO REACTION TO STIMULUS
				05-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	11:05	P	NO REACTION TO STIMULUS
				05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74857-10	M	2500 PPM	BEHAVIOR/CNS	01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74857-10	M	2500 PPM	BEHAVIOR/CNS	01-19-02	10:45	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:10	P	NO REACTION TO STIMULUS
				01-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:55	P	NO REACTION TO STIMULUS
				01-27-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:05	P	NO REACTION TO STIMULUS
				01-29-02	11:05	P	NO REACTION TO STIMULUS
				01-30-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P	NO REACTION TO STIMULUS
				02-01-02	11:25	P	NO REACTION TO STIMULUS
				02-02-02	11:34	P	NO REACTION TO STIMULUS
				02-03-02	10:55	P	NO REACTION TO STIMULUS
				02-04-02	11:35	P	NO REACTION TO STIMULUS
				02-05-02	11:35	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	NO REACTION TO STIMULUS
				02-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74857-10	M	2500 PPM	BEHAVIOR/CNS	02-08-02	11:05	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-09-02	10:34	P	NO REACTION TO STIMULUS
				02-10-02	10:41	P	NO REACTION TO STIMULUS
				02-11-02	11:20	P	NO REACTION TO STIMULUS
				02-12-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	NO REACTION TO STIMULUS
				02-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	NO REACTION TO STIMULUS
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:05	P	NO REACTION TO STIMULUS
				02-23-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	NO REACTION TO STIMULUS
				02-27-02	11:35	P	NO REACTION TO STIMULUS
				02-28-02	11:40	P	NO REACTION TO STIMULUS
				03-01-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74857-10	M	2500 PPM	BEHAVIOR/CNS	03-02-02	11:33	P NO REACTION TO STIMULUS
				03-03-02	11:51	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:10	P NO REACTION TO STIMULUS
				03-05-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	12:00	P NO REACTION TO STIMULUS
				03-07-02	11:00	P NO REACTION TO STIMULUS
				03-08-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-11-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:10	P NO REACTION TO STIMULUS
				03-14-02	10:45	P NO REACTION TO STIMULUS
				03-15-02	10:50	P NO REACTION TO STIMULUS
				03-16-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:15	P NO REACTION TO STIMULUS
				03-18-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:48	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:50	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74857-10	M	2500 PPM	BEHAVIOR/CNS	03-21-02	11:05	P NO REACTION TO STIMULUS
				03-22-02	11:18	P NO REACTION TO STIMULUS
				03-23-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:15	P NO REACTION TO STIMULUS
				03-26-02	11:25	P NO REACTION TO STIMULUS
				03-27-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:58	P NO REACTION TO STIMULUS
				03-29-02	12:15	P NO REACTION TO STIMULUS
				03-30-02	12:20	P NO REACTION TO STIMULUS
				03-31-02	11:10	P NO REACTION TO STIMULUS
				04-01-02	12:15	P NO REACTION TO STIMULUS
				04-02-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:50	P NO REACTION TO STIMULUS
				04-04-02	11:25	P NO REACTION TO STIMULUS
				04-05-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P NO REACTION TO STIMULUS
				04-07-02	11:20	P NO REACTION TO STIMULUS
				04-08-02	11:20	P NO REACTION TO STIMULUS
				04-09-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:50	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74857-10	M	2500 PPM	BEHAVIOR/CNS	04-12-02	11:05	P	NO REACTION TO STIMULUS
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:20	P	NO REACTION TO STIMULUS
				04-16-02	11:20	P	NO REACTION TO STIMULUS
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:50	P	NO REACTION TO STIMULUS
				04-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:35	P	NO REACTION TO STIMULUS
				04-26-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:16	P	NO REACTION TO STIMULUS
				04-28-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:00	P	NO REACTION TO STIMULUS
				04-30-02	11:15	P	NO REACTION TO STIMULUS
				05-01-02	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74857-10	M	2500 PPM	BEHAVIOR/CNS	05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P NO REACTION TO STIMULUS
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	11:05	P NO REACTION TO STIMULUS
				05-11-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:20	P NO REACTION TO STIMULUS
				05-13-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P NO REACTION TO STIMULUS
				05-15-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:10	P NO REACTION TO STIMULUS
				05-17-02	11:10	P NO REACTION TO STIMULUS
				05-18-02	10:09	P NO REACTION TO STIMULUS
				05-19-02	10:12	P NO REACTION TO STIMULUS
				05-25-02	10:45	P NO REACTION TO STIMULUS
				05-26-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 185 (F1 MALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74857-10 M	2500 PPM	BEHAVIOR/CNS	05-28-02	12:25	P	STIMULUS WAS HEARD
			05-29-02	11:15	P	NO REACTION TO STIMULUS
						SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
						STIMULUS WAS HEARD
			05-20-02	10:40	P	NO REACTION TO STIMULUS
			05-21-02	11:15	P	NO REACTION TO STIMULUS
			05-22-02	11:18	P	NO REACTION TO STIMULUS
			05-23-02	11:05	P	NO REACTION TO STIMULUS
05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT			
						STIMULUS WAS HEARD

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PCRDv4.05  
12/11/2002

**FINAL REPORT**

Volume 7 of 10  
(Individual Tables 186-203)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 186 - 203**

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 1

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS	01-03-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	NO REACTION TO STIMULUS
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS	01-25-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	NO REACTION TO STIMULUS
				02-06-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	NO REACTION TO STIMULUS
				02-09-02	10:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	NO REACTION TO STIMULUS
				02-12-02	10:50	P	NO REACTION TO STIMULUS
				02-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74740-07	F	0 PPM	BEHAVIOR/CNS	02-14-02	11:05	P	STIMULUS WAS HEARD
				02-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:45	P	NO REACTION TO STIMULUS
				02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-19-02	10:50	P	NO REACTION TO STIMULUS
				02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:50	P	NO REACTION TO STIMULUS
				02-23-02	10:41	P	NO REACTION TO STIMULUS
				02-25-02	11:00	P	NO REACTION TO STIMULUS
				02-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	NO REACTION TO STIMULUS
				03-03-02	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS	03-06-02	11:45	P	NO REACTION TO STIMULUS
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	10:55	P	NO REACTION TO STIMULUS
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P	NO REACTION TO STIMULUS
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:50	P	NO REACTION TO STIMULUS
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-24-02	11:02	P	NO REACTION TO STIMULUS
			03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-26-02	11:10	P	NO REACTION TO STIMULUS
			03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-28-02	11:43	P	NO REACTION TO STIMULUS
			03-29-02	12:00	P	NO REACTION TO STIMULUS
			03-30-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-31-02	10:55	P	NO REACTION TO STIMULUS
			04-01-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-03-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-06-02	11:04	P	NO REACTION TO STIMULUS
			04-07-02	11:05	P	NO REACTION TO STIMULUS
			04-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-09-02	11:00	P	NO REACTION TO STIMULUS
			04-11-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-10-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS	04-12-02	10:50	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:05	P NO REACTION TO STIMULUS
				04-16-02	11:05	P NO REACTION TO STIMULUS
				04-17-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:20	P NO REACTION TO STIMULUS
				04-23-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:50	P NO REACTION TO STIMULUS
				04-30-02	11:00	P NO REACTION TO STIMULUS
				05-01-02	11:15	P NO REACTION TO STIMULUS
				05-02-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	05-05-02	10:20	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-06-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:10	P	NO REACTION TO STIMULUS
			05-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-10-02	10:50	P	NO REACTION TO STIMULUS
			05-11-02	10:05	P	NO REACTION TO STIMULUS
			05-12-02	10:05	P	NO REACTION TO STIMULUS
			05-13-02	11:20	P	NO REACTION TO STIMULUS
			05-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-19-02	9:56	P	NO REACTION TO STIMULUS
			05-25-02	10:30	P	NO REACTION TO STIMULUS
			05-26-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-27-02	10:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74740-07	F	0 PPM	BEHAVIOR/CNS	05-28-02	12:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:22	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74789-09	F	0 PPM	BEHAVIOR/CNS	01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-17-02	10:55	P	NO REACTION TO STIMULUS
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74789-09	F	0 PPM	BEHAVIOR/CNS	01-25-02	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	NO REACTION TO STIMULUS
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	NO REACTION TO STIMULUS
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	NO REACTION TO STIMULUS
				02-09-02	10:19	P	NO REACTION TO STIMULUS
				02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	NO REACTION TO STIMULUS
				02-12-02	10:50	P	NO REACTION TO STIMULUS
				02-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-15-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74789-09	F	0 PPM	BEHAVIOR/CNS	02-16-02	10:45	P NO REACTION TO STIMULUS
				02-17-02	10:45	P NO REACTION TO STIMULUS
				02-18-02	11:15	P NO REACTION TO STIMULUS
				02-19-02	10:50	P NO REACTION TO STIMULUS
				02-20-02	11:35	P NO REACTION TO STIMULUS
				02-21-02	10:55	P NO REACTION TO STIMULUS
				02-22-02	10:50	P NO REACTION TO STIMULUS
				02-23-02	10:41	P NO REACTION TO STIMULUS
				02-25-02	11:00	P NO REACTION TO STIMULUS
				02-26-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:20	P NO REACTION TO STIMULUS
				02-28-02	11:25	P NO REACTION TO STIMULUS
				03-01-02	11:00	P NO REACTION TO STIMULUS
				03-02-02	11:18	P NO REACTION TO STIMULUS
				03-03-02	11:36	P NO REACTION TO STIMULUS
				03-04-02	10:55	P NO REACTION TO STIMULUS
				03-05-02	10:50	P NO REACTION TO STIMULUS
				03-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	10:55	P NO REACTION TO STIMULUS
				03-09-02	10:22	P NO REACTION TO STIMULUS
				03-10-02	10:20	P NO REACTION TO STIMULUS
				03-11-02	10:55	P NO REACTION TO STIMULUS
				03-12-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74789-09	F	0 PPM	BEHAVIOR/CNS	03-14-02	10:30	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:35	P NO REACTION TO STIMULUS
				03-16-02	11:05	P NO REACTION TO STIMULUS
				03-17-02	11:00	P NO REACTION TO STIMULUS
				03-18-02	10:55	P NO REACTION TO STIMULUS
				03-19-02	11:33	P NO REACTION TO STIMULUS
				03-20-02	11:35	P NO REACTION TO STIMULUS
				03-21-02	10:50	P NO REACTION TO STIMULUS
				03-22-02	11:03	P NO REACTION TO STIMULUS
				03-23-02	11:15	P NO REACTION TO STIMULUS
				03-24-02	11:02	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:00	P NO REACTION TO STIMULUS
				03-26-02	11:10	P NO REACTION TO STIMULUS
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P NO REACTION TO STIMULUS
				03-29-02	12:00	P NO REACTION TO STIMULUS
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P NO REACTION TO STIMULUS
				04-01-02	12:00	P NO REACTION TO STIMULUS
				04-02-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P NO REACTION TO STIMULUS
				04-04-02	11:10	P NO REACTION TO STIMULUS
				04-05-02	11:15	P NO REACTION TO STIMULUS
				04-06-02	11:04	P NO REACTION TO STIMULUS
				04-07-02	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74789-09	F	0 PPM	BEHAVIOR/CNS	04-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:00	P	NO REACTION TO STIMULUS
				04-11-02	10:50	P	NO REACTION TO STIMULUS
				04-10-02	11:35	P	NO REACTION TO STIMULUS
				04-12-02	10:50	P	NO REACTION TO STIMULUS
				04-13-02	10:35	P	NO REACTION TO STIMULUS
				04-14-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:05	P	NO REACTION TO STIMULUS
				04-16-02	11:05	P	NO REACTION TO STIMULUS
				04-17-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P	NO REACTION TO STIMULUS
				04-19-02	10:40	P	NO REACTION TO STIMULUS
				04-20-02	10:35	P	NO REACTION TO STIMULUS
				04-21-02	10:35	P	NO REACTION TO STIMULUS
				04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P	NO REACTION TO STIMULUS
				05-01-02	11:15	P	NO REACTION TO STIMULUS
				05-02-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:50	P	NO REACTION TO STIMULUS
				05-04-02	10:24	P	NO REACTION TO STIMULUS
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	NO REACTION TO STIMULUS
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74789-09	F	0 PPM	BEHAVIOR/CNS	05-09-02	11:05	P	NO REACTION TO STIMULUS
				05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	NO REACTION TO STIMULUS
				05-12-02	10:05	P	NO REACTION TO STIMULUS
				05-13-02	11:20	P	NO REACTION TO STIMULUS
				05-14-02	10:40	P	NO REACTION TO STIMULUS
				05-15-02	11:00	P	NO REACTION TO STIMULUS
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-28-02	12:30	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:38	P	NO REACTION TO STIMULUS
				02-24-02	10:22	P	NO REACTION TO STIMULUS
74826-08	F	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS	01-11-02	11:10	P	NO REACTION TO STIMULUS
				01-12-02	13:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	NO REACTION TO STIMULUS
				01-22-02	10:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-25-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	NO REACTION TO STIMULUS
				01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			01-30-02	11:05	P	NO REACTION TO STIMULUS
			01-31-02	10:55	P	NO REACTION TO STIMULUS
			02-01-02	11:10	P	NO REACTION TO STIMULUS
			02-02-02	11:19	P	NO REACTION TO STIMULUS
			02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-05-02	11:20	P	NO REACTION TO STIMULUS
			02-06-02	11:35	P	NO REACTION TO STIMULUS
			02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-08-02	10:50	P	NO REACTION TO STIMULUS
			02-09-02	10:19	P	NO REACTION TO STIMULUS
			02-10-02	10:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-12-02	10:50	P	NO REACTION TO STIMULUS
			02-13-02	11:25	P	NO REACTION TO STIMULUS
			02-14-02	11:05	P	NO REACTION TO STIMULUS
			02-15-02	10:50	P	NO REACTION TO STIMULUS
			02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-18-02	11:15	P	NO REACTION TO STIMULUS
			02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-20-02	11:35	P	NO REACTION TO STIMULUS
			02-21-02	10:55	P	NO REACTION TO STIMULUS
			02-22-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-26-02	11:25	P	NO REACTION TO STIMULUS
			02-27-02	11:20	P	NO REACTION TO STIMULUS
			02-28-02	11:25	P	NO REACTION TO STIMULUS
			03-01-02	11:00	P	NO REACTION TO STIMULUS
			03-02-02	11:18	P	NO REACTION TO STIMULUS
			03-03-02	11:36	P	NO REACTION TO STIMULUS
			03-04-02	10:55	P	NO REACTION TO STIMULUS
			03-05-02	10:50	P	NO REACTION TO STIMULUS
			03-06-02	11:45	P	NO REACTION TO STIMULUS
			03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-08-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-12-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74826-08	F	0 PPM	BEHAVIOR/CNS	03-14-02	10:30	P	STIMULUS WAS HEARD
				03-15-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:35	P	NO REACTION TO STIMULUS
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:02	P	NO REACTION TO STIMULUS
				03-25-02	11:00	P	NO REACTION TO STIMULUS
				03-26-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-27-02	11:15	P	NO REACTION TO STIMULUS
				03-28-02	11:43	P	NO REACTION TO STIMULUS
				03-29-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS	03-31-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:35	P	NO REACTION TO STIMULUS
				04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:04	P	NO REACTION TO STIMULUS
				04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS	04-16-02	11:05	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:03	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:01	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:33	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P NO REACTION TO STIMULUS
				05-05-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS	05-07-02	10:50	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:10	P NO REACTION TO STIMULUS
				05-09-02	11:05	P NO REACTION TO STIMULUS
				05-10-02	10:50	P NO REACTION TO STIMULUS
				05-11-02	10:05	P NO REACTION TO STIMULUS
				05-12-02	10:05	P NO REACTION TO STIMULUS
				05-13-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P NO REACTION TO STIMULUS
				05-16-02	10:55	P NO REACTION TO STIMULUS
				05-17-02	10:55	P NO REACTION TO STIMULUS
				05-18-02	9:54	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	9:56	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:25	P NO REACTION TO STIMULUS
				05-27-02	10:05	P NO REACTION TO STIMULUS
				05-20-02	10:25	P NO REACTION TO STIMULUS
				05-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:03	P NO REACTION TO STIMULUS
				05-23-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:38	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74826-08	F	0 PPM	BEHAVIOR/CNS	03-10-02	10:20	P	STIMULUS WAS HEARD
				02-24-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74845-07	F	0 PPM	BEHAVIOR/CNS	01-06-02	11:40	P	STIMULUS WAS HEARD
				01-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	NO REACTION TO STIMULUS
				01-13-02	12:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	01-22-02	10:56	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-25-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				02-05-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	NO REACTION TO STIMULUS
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74845-07	F	0 PPM	BEHAVIOR/CNS	02-09-02	10:19	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:50	P	NO REACTION TO STIMULUS
				02-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:50	P	NO REACTION TO STIMULUS
				02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:45	P	NO REACTION TO STIMULUS
				02-18-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:50	P	NO REACTION TO STIMULUS
				02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	NO REACTION TO STIMULUS
				02-22-02	10:50	P	NO REACTION TO STIMULUS
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	03-01-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	NO REACTION TO STIMULUS
				03-11-02	10:55	P	NO REACTION TO STIMULUS
				03-12-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	11:55	P	NO REACTION TO STIMULUS
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:05	P	NO REACTION TO STIMULUS
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	03-19-02	11:33	P	NO REACTION TO STIMULUS
				03-20-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:02	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P	NO REACTION TO STIMULUS
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P	NO REACTION TO STIMULUS
				04-04-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	04-05-02	11:15	P	NO REACTION TO STIMULUS
				04-06-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P	NO REACTION TO STIMULUS
				04-10-02	11:35	P	NO REACTION TO STIMULUS
				04-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:20	P	NO REACTION TO STIMULUS
				04-26-02	11:03	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-27-02	11:01	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	04-28-02	10:33	P	NO REACTION TO STIMULUS
				04-29-02	10:50	P	NO REACTION TO STIMULUS
				04-30-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P	NO REACTION TO STIMULUS
				05-05-02	10:20	P	NO REACTION TO STIMULUS
				05-06-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:50	P	NO REACTION TO STIMULUS
				05-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	10:50	P	NO REACTION TO STIMULUS
				05-11-02	10:05	P	NO REACTION TO STIMULUS
				05-12-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P	NO REACTION TO STIMULUS
				05-14-02	10:40	P	NO REACTION TO STIMULUS
				05-15-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-16-02	10:55	P	NO REACTION TO STIMULUS
				05-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74845-07	F	0 PPM	BEHAVIOR/CNS	05-18-02	9:54	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-27-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-28-02	12:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-29-02	11:00	P	NO REACTION TO STIMULUS
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	NO REACTION TO STIMULUS
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
74854-08	F	0 PPM	BEHAVIOR/CNS	02-24-02	10:22	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				01-06-02	11:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	01-12-02	13:03	P	STIMULUS WAS HEARD
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:50	P	NO REACTION TO STIMULUS
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	NO REACTION TO STIMULUS
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	10:55	P	NO REACTION TO STIMULUS
				01-25-02	10:55	P	NO REACTION TO STIMULUS
				01-26-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	01-31-02	10:55	P	STIMULUS WAS HEARD
				02-01-02	11:10	P	NO REACTION TO STIMULUS
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	NO REACTION TO STIMULUS
				02-05-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-06-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:50	P	NO REACTION TO STIMULUS
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-10-02	10:26	P	NO REACTION TO STIMULUS
				02-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:50	P	NO REACTION TO STIMULUS
				02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	02-17-02	10:45	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-18-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-22-02	10:50	P	NO REACTION TO STIMULUS
				02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:00	P	NO REACTION TO STIMULUS
				02-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:20	P	NO REACTION TO STIMULUS
				02-28-02	11:25	P	NO REACTION TO STIMULUS
				03-01-02	11:00	P	NO REACTION TO STIMULUS
				03-02-02	11:18	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	03-08-02	10:55	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:35	P	NO REACTION TO STIMULUS
				03-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:03	P	NO REACTION TO STIMULUS
				03-23-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	03-24-02	11:02	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-25-02	11:00	P	NO REACTION TO STIMULUS
				03-26-02	11:10	P	NO REACTION TO STIMULUS
				03-27-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P	NO REACTION TO STIMULUS
				03-30-02	12:05	P	NO REACTION TO STIMULUS
				03-31-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-09-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74854-08	F	0 PPM	04-11-02	10:50	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-10-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-12-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-13-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-14-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-15-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-17-02	11:20	P	NO REACTION TO STIMULUS
			04-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-20-02	10:35	P	NO REACTION TO STIMULUS
			04-21-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-26-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-27-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-29-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	04-30-02	11:00	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-08-02	11:10	P	NO REACTION TO STIMULUS
				05-09-02	11:05	P	NO REACTION TO STIMULUS
				05-10-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-11-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74854-08	F	0 PPM	BEHAVIOR/CNS	05-16-02	10:55	P	STIMULUS WAS HEARD
							SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-19-02	9:56	P	NO REACTION TO STIMULUS
				05-25-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-26-02	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
				05-27-02	10:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
							STIMULUS WAS HEARD
				05-28-02	12:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
							VOCALIZATION)
05-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-30-02	11:04	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				
			VOCALIZATION)				
05-20-02	10:25	P	NO REACTION TO STIMULUS				
05-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-22-02	11:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				
			STIMULUS WAS HEARD				
05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE				
			VOCALIZATION)				
05-24-02	10:38	P	NO REACTION TO STIMULUS				
02-24-02	10:22	P	NO REACTION TO STIMULUS				
74867-07	F	0 PPM	BEHAVIOR/CNS	01-03-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	01-04-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:05	P	NO REACTION TO STIMULUS
				01-06-02	11:40	P	NO REACTION TO STIMULUS
				01-07-02	11:20	P	NO REACTION TO STIMULUS
				01-08-02	11:55	P	NO REACTION TO STIMULUS
				01-09-02	11:25	P	NO REACTION TO STIMULUS
				01-10-02	11:35	P	NO REACTION TO STIMULUS
				01-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:03	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:11	P	NO REACTION TO STIMULUS
				01-14-02	11:25	P	NO REACTION TO STIMULUS
				01-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:30	P	NO REACTION TO STIMULUS
				01-20-02	10:50	P	NO REACTION TO STIMULUS
				01-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	10:56	P	NO REACTION TO STIMULUS
				01-23-02	11:03	P	NO REACTION TO STIMULUS
				01-24-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	01-25-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-26-02	10:40	P	NO REACTION TO STIMULUS
				01-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:50	P	NO REACTION TO STIMULUS
				01-30-02	11:05	P	NO REACTION TO STIMULUS
				01-31-02	10:55	P	NO REACTION TO STIMULUS
				02-01-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:35	P	NO REACTION TO STIMULUS
				02-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:19	P	NO REACTION TO STIMULUS
				02-10-02	10:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS			VOCALIZATION)
			02-12-02	10:50	P	NO REACTION TO STIMULUS
			02-13-02	11:25	P	NO REACTION TO STIMULUS
			02-14-02	11:05	P	NO REACTION TO STIMULUS
			02-15-02	10:50	P	NO REACTION TO STIMULUS
			02-16-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-18-02	11:15	P	NO REACTION TO STIMULUS
			02-19-02	10:50	P	NO REACTION TO STIMULUS
			02-20-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-21-02	10:55	P	NO REACTION TO STIMULUS
			02-22-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-23-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-25-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-26-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-28-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-01-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74867-07	F	0 PPM	BEHAVIOR/CNS	03-03-02	11:36	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	10:55	P	NO REACTION TO STIMULUS
				03-05-02	10:50	P	NO REACTION TO STIMULUS
				03-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:22	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:20	P	NO REACTION TO STIMULUS
				03-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	03-20-02	11:35	P VOCALIZATION)
				03-21-02	10:50	P NO REACTION TO STIMULUS
				03-22-02	11:03	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-23-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-24-02	11:02	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:00	P NO REACTION TO STIMULUS
				03-26-02	11:10	P NO REACTION TO STIMULUS
				03-27-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:05	P NO REACTION TO STIMULUS
				03-31-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:00	P NO REACTION TO STIMULUS
				04-02-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-03-02	11:35	P NO REACTION TO STIMULUS
				04-04-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-05-02	11:15	P NO REACTION TO STIMULUS
				04-06-02	11:04	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	04-07-02	11:05	P VOCALIZATION) NO REACTION TO STIMULUS
				04-08-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:04	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:05	P NO REACTION TO STIMULUS
				04-16-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-21-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:33	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	04-29-02	10:50	P VOCALIZATION)
				04-30-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-02-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:24	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:20	P NO REACTION TO STIMULUS
				05-06-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:50	P NO REACTION TO STIMULUS
				05-08-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-09-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74867-07	F	0 PPM	BEHAVIOR/CNS	05-16-02	10:55	P	STIMULUS WAS HEARD
				05-17-02	10:55	P	NO REACTION TO STIMULUS
				05-18-02	9:54	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-19-02	9:56	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:30	P	NO REACTION TO STIMULUS
				05-26-02	10:25	P	NO REACTION TO STIMULUS
				05-27-02	10:05	P	NO REACTION TO STIMULUS
				05-28-02	12:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:25	P	NO REACTION TO STIMULUS
				05-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:03	P	NO REACTION TO STIMULUS
				05-23-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:30	P	NO REACTION TO STIMULUS
				02-24-02	10:22	P	NO REACTION TO STIMULUS
74790-15	F	500 PPM	BEHAVIOR/CNS	01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	NO REACTION TO STIMULUS
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	NO REACTION TO STIMULUS
				01-18-02	10:50	P	NO REACTION TO STIMULUS
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	NO REACTION TO STIMULUS
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	02-08-02	10:55	P NO REACTION TO STIMULUS
				02-09-02	10:24	P NO REACTION TO STIMULUS
				02-10-02	10:31	P NO REACTION TO STIMULUS
				02-11-02	11:10	P NO REACTION TO STIMULUS
				02-12-02	10:55	P NO REACTION TO STIMULUS
				02-13-02	11:30	P NO REACTION TO STIMULUS
				02-14-02	11:10	P NO REACTION TO STIMULUS
				02-15-02	10:55	P NO REACTION TO STIMULUS
				02-16-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P NO REACTION TO STIMULUS
				02-18-02	11:20	P NO REACTION TO STIMULUS
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P NO REACTION TO STIMULUS
				02-21-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P NO REACTION TO STIMULUS
				02-23-02	10:46	P NO REACTION TO STIMULUS
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P NO REACTION TO STIMULUS
				02-28-02	11:30	P NO REACTION TO STIMULUS
				03-01-02	11:05	P NO REACTION TO STIMULUS
				03-02-02	11:23	P NO REACTION TO STIMULUS
				03-03-02	11:41	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	NO REACTION TO STIMULUS
				03-10-02	10:25	P	NO REACTION TO STIMULUS
				03-11-02	11:00	P	NO REACTION TO STIMULUS
				03-12-02	11:15	P	NO REACTION TO STIMULUS
				03-13-02	12:00	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P	NO REACTION TO STIMULUS
				03-19-02	11:38	P	NO REACTION TO STIMULUS
				03-20-02	11:40	P	NO REACTION TO STIMULUS
				03-21-02	10:55	P	NO REACTION TO STIMULUS
				03-22-02	11:08	P	NO REACTION TO STIMULUS
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	NO REACTION TO STIMULUS
				03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	NO REACTION TO STIMULUS
				03-30-02	12:10	P	NO REACTION TO STIMULUS
				03-31-02	11:00	P	NO REACTION TO STIMULUS
				04-01-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	04-02-02	11:20	P NO REACTION TO STIMULUS
				04-03-02	11:40	P NO REACTION TO STIMULUS
				04-04-02	11:15	P NO REACTION TO STIMULUS
				04-05-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P NO REACTION TO STIMULUS
				04-07-02	11:10	P NO REACTION TO STIMULUS
				04-08-02	11:10	P NO REACTION TO STIMULUS
				04-09-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P NO REACTION TO STIMULUS
				04-10-02	11:40	P NO REACTION TO STIMULUS
				04-12-02	10:55	P NO REACTION TO STIMULUS
				04-13-02	10:40	P NO REACTION TO STIMULUS
				04-14-02	11:09	P NO REACTION TO STIMULUS
				04-15-02	11:10	P NO REACTION TO STIMULUS
				04-16-02	11:10	P NO REACTION TO STIMULUS
				04-17-02	11:25	P NO REACTION TO STIMULUS
				04-18-02	10:55	P NO REACTION TO STIMULUS
				04-19-02	10:45	P NO REACTION TO STIMULUS
				04-20-02	10:40	P NO REACTION TO STIMULUS
				04-21-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:35	P NO REACTION TO STIMULUS
				04-30-02	11:05	P NO REACTION TO STIMULUS
				05-01-02	11:20	P NO REACTION TO STIMULUS
				05-02-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	05-03-02	10:55	P	NO REACTION TO STIMULUS
				05-04-02	10:29	P	NO REACTION TO STIMULUS
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	NO REACTION TO STIMULUS
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	NO REACTION TO STIMULUS
				05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74790-15	F	500 PPM	BEHAVIOR/CNS	05-24-02	10:43	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	NO REACTION TO STIMULUS
74798-12	F	500 PPM	BEHAVIOR/CNS	01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	NO REACTION TO STIMULUS
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	NO REACTION TO STIMULUS
				01-18-02	10:50	P	NO REACTION TO STIMULUS
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	NO REACTION TO STIMULUS
				01-23-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2398 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-12	F	500 PPM	BEHAVIOR/CNS	01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	NO REACTION TO STIMULUS
				02-11-02	11:10	P	NO REACTION TO STIMULUS
				02-12-02	10:55	P	NO REACTION TO STIMULUS
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	NO REACTION TO STIMULUS
				02-15-02	10:55	P	NO REACTION TO STIMULUS
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	NO REACTION TO STIMULUS
				02-18-02	11:20	P	NO REACTION TO STIMULUS
				02-19-02	10:55	P	NO REACTION TO STIMULUS
				02-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-12	F	500 PPM	BEHAVIOR/CNS	02-22-02	10:55	P	NO REACTION TO STIMULUS
				02-23-02	10:46	P	NO REACTION TO STIMULUS
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P	NO REACTION TO STIMULUS
				03-02-02	11:23	P	NO REACTION TO STIMULUS
				03-03-02	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	NO REACTION TO STIMULUS
				03-05-02	10:55	P	NO REACTION TO STIMULUS
				03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	NO REACTION TO STIMULUS
				03-10-02	10:25	P	NO REACTION TO STIMULUS
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:15	P	NO REACTION TO STIMULUS
				03-13-02	12:00	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74798-12	F	500 PPM	BEHAVIOR/CNS	03-19-02	11:38	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P	NO REACTION TO STIMULUS
				03-21-02	10:55	P	NO REACTION TO STIMULUS
				03-22-02	11:08	P	NO REACTION TO STIMULUS
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	NO REACTION TO STIMULUS
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	NO REACTION TO STIMULUS
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	NO REACTION TO STIMULUS
				04-07-02	11:10	P	NO REACTION TO STIMULUS
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2401 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-12	F	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-11-02	10:55	P	NO REACTION TO STIMULUS
			04-10-02	11:40	P	NO REACTION TO STIMULUS
			04-12-02	10:55	P	NO REACTION TO STIMULUS
			04-13-02	10:40	P	NO REACTION TO STIMULUS
			04-14-02	11:09	P	NO REACTION TO STIMULUS
			04-15-02	11:10	P	NO REACTION TO STIMULUS
			04-16-02	11:10	P	NO REACTION TO STIMULUS
			04-17-02	11:25	P	NO REACTION TO STIMULUS
			04-18-02	10:55	P	NO REACTION TO STIMULUS
			04-19-02	10:45	P	NO REACTION TO STIMULUS
			04-20-02	10:40	P	NO REACTION TO STIMULUS
			04-28-02	10:38	P	NO REACTION TO STIMULUS
			04-29-02	11:35	P	NO REACTION TO STIMULUS
			04-30-02	11:05	P	NO REACTION TO STIMULUS
			05-01-02	11:20	P	NO REACTION TO STIMULUS
			05-02-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-03-02	10:55	P	NO REACTION TO STIMULUS
			05-04-02	10:29	P	NO REACTION TO STIMULUS
			05-05-02	10:25	P	NO REACTION TO STIMULUS
			05-06-02	10:50	P	NO REACTION TO STIMULUS
			05-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:15	P	NO REACTION TO STIMULUS
			05-09-02	11:10	P	NO REACTION TO STIMULUS
			05-10-02	10:55	P	NO REACTION TO STIMULUS
			05-11-02	10:10	P	NO REACTION TO STIMULUS
			05-12-02	10:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74798-12	F	500 PPM	BEHAVIOR/CNS	05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:43	P	NO REACTION TO STIMULUS
74819-10	F	500 PPM	BEHAVIOR/CNS	02-24-02	10:27	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:08	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819-10	F	500 PPM	BEHAVIOR/CNS	01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-26-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819-10	F	500 PPM	BEHAVIOR/CNS	01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P	NO REACTION TO STIMULUS
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74819-10	F	500 PPM	BEHAVIOR/CNS	02-18-02	11:20	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	NO REACTION TO STIMULUS
				02-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:23	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:41	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:00	P	NO REACTION TO STIMULUS
				03-05-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819-10	F	500 PPM	BEHAVIOR/CNS	03-07-02	10:50	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:38	P	NO REACTION TO STIMULUS
				03-20-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74819-10	F	500 PPM	BEHAVIOR/CNS	03-23-02	11:20	P	STIMULUS WAS HEARD
				03-24-02	11:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74819-10	F	500 PPM	BEHAVIOR/CNS	04-07-02	11:10	P	VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P	NO REACTION TO STIMULUS
				04-14-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:25	P	NO REACTION TO STIMULUS
				04-18-02	10:55	P	NO REACTION TO STIMULUS
				04-19-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819-10	F	500 PPM	BEHAVIOR/CNS	04-30-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:20	P NO REACTION TO STIMULUS
				05-02-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:29	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:25	P NO REACTION TO STIMULUS
				05-06-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P NO REACTION TO STIMULUS
				05-09-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P NO REACTION TO STIMULUS
				05-13-02	11:25	P NO REACTION TO STIMULUS
				05-14-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P NO REACTION TO STIMULUS
				05-16-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74819-10	F	500 PPM	BEHAVIOR/CNS	05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-25-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-29-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:43	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74835-07	F	500 PPM	BEHAVIOR/CNS	01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS	01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	NO REACTION TO STIMULUS
				01-14-02	11:52	P	NO REACTION TO STIMULUS
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:50	P	NO REACTION TO STIMULUS
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	NO REACTION TO STIMULUS
				01-22-02	11:01	P	NO REACTION TO STIMULUS
				01-23-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:00	P	NO REACTION TO STIMULUS
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-07-02	10:55	P	NO REACTION TO STIMULUS
			02-08-02	10:55	P	NO REACTION TO STIMULUS
			02-09-02	10:24	P	NO REACTION TO STIMULUS
			02-10-02	10:31	P	NO REACTION TO STIMULUS
			02-11-02	11:10	P	NO REACTION TO STIMULUS
			02-12-02	10:55	P	NO REACTION TO STIMULUS
			02-13-02	11:30	P	NO REACTION TO STIMULUS
			02-14-02	11:10	P	NO REACTION TO STIMULUS
			02-15-02	10:55	P	NO REACTION TO STIMULUS
			02-16-02	10:50	P	NO REACTION TO STIMULUS
			02-17-02	10:50	P	NO REACTION TO STIMULUS
			02-18-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-20-02	11:40	P	NO REACTION TO STIMULUS
			02-21-02	11:00	P	NO REACTION TO STIMULUS
			02-22-02	10:55	P	NO REACTION TO STIMULUS
			02-23-02	10:46	P	NO REACTION TO STIMULUS
			02-25-02	11:05	P	NO REACTION TO STIMULUS
			02-26-02	11:30	P	NO REACTION TO STIMULUS
			02-27-02	11:25	P	NO REACTION TO STIMULUS
			02-28-02	11:30	P	NO REACTION TO STIMULUS
			03-01-02	11:05	P	NO REACTION TO STIMULUS
			03-02-02	11:23	P	NO REACTION TO STIMULUS
			03-03-02	11:41	P	NO REACTION TO STIMULUS
			03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-05-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS	03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	NO REACTION TO STIMULUS
				03-10-02	10:25	P	NO REACTION TO STIMULUS
				03-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:15	P	NO REACTION TO STIMULUS
				03-13-02	12:00	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:00	P	NO REACTION TO STIMULUS
				03-19-02	11:38	P	NO REACTION TO STIMULUS
				03-20-02	11:40	P	NO REACTION TO STIMULUS
				03-21-02	10:55	P	NO REACTION TO STIMULUS
				03-22-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	NO REACTION TO STIMULUS
				03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-31-02	11:00	P	NO REACTION TO STIMULUS
			04-01-02	12:05	P	NO REACTION TO STIMULUS
			04-02-02	11:20	P	NO REACTION TO STIMULUS
			04-03-02	11:40	P	NO REACTION TO STIMULUS
			04-04-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-07-02	11:10	P	NO REACTION TO STIMULUS
			04-08-02	11:10	P	NO REACTION TO STIMULUS
			04-09-02	11:05	P	NO REACTION TO STIMULUS
			04-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-10-02	11:40	P	NO REACTION TO STIMULUS
			04-12-02	10:55	P	NO REACTION TO STIMULUS
			04-13-02	10:40	P	NO REACTION TO STIMULUS
			04-14-02	11:09	P	NO REACTION TO STIMULUS
			04-15-02	11:10	P	NO REACTION TO STIMULUS
			04-16-02	11:10	P	NO REACTION TO STIMULUS
			04-17-02	11:25	P	NO REACTION TO STIMULUS
			04-18-02	10:55	P	NO REACTION TO STIMULUS
			04-19-02	10:45	P	NO REACTION TO STIMULUS
			04-20-02	10:40	P	NO REACTION TO STIMULUS
			04-21-02	10:40	P	NO REACTION TO STIMULUS
			04-28-02	10:38	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-29-02	11:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS	04-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	NO REACTION TO STIMULUS
				05-03-02	10:55	P	NO REACTION TO STIMULUS
				05-04-02	10:29	P	NO REACTION TO STIMULUS
				05-05-02	10:25	P	NO REACTION TO STIMULUS
				05-06-02	10:50	P	NO REACTION TO STIMULUS
				05-07-02	10:55	P	NO REACTION TO STIMULUS
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74835-07	F	500 PPM	BEHAVIOR/CNS	05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-29-02	11:05	P	NO REACTION TO STIMULUS
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	NO REACTION TO STIMULUS
				05-24-02	10:43	P	NO REACTION TO STIMULUS
74838-11	F	500 PPM	BEHAVIOR/CNS	02-24-02	10:27	P	NO REACTION TO STIMULUS
				01-02-02	11:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-11	F	500 PPM	BEHAVIOR/CNS	01-18-02	10:50	P	NO REACTION TO STIMULUS
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:01	P	NO REACTION TO STIMULUS
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS
				01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	NO REACTION TO STIMULUS
				01-30-02	11:10	P	NO REACTION TO STIMULUS
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:24	P	NO REACTION TO STIMULUS
				02-03-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	NO REACTION TO STIMULUS
				02-06-02	11:40	P	NO REACTION TO STIMULUS
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	NO REACTION TO STIMULUS
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	NO REACTION TO STIMULUS
				02-11-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-11	F	500 PPM	BEHAVIOR/CNS	02-12-02	10:55	P	NO REACTION TO STIMULUS
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	NO REACTION TO STIMULUS
				02-15-02	10:55	P	NO REACTION TO STIMULUS
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	NO REACTION TO STIMULUS
				02-18-02	11:20	P	NO REACTION TO STIMULUS
				02-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:40	P	NO REACTION TO STIMULUS
				02-21-02	11:00	P	NO REACTION TO STIMULUS
				02-22-02	10:55	P	NO REACTION TO STIMULUS
				02-23-02	10:46	P	NO REACTION TO STIMULUS
				02-25-02	11:05	P	NO REACTION TO STIMULUS
				02-26-02	11:30	P	NO REACTION TO STIMULUS
				02-27-02	11:25	P	NO REACTION TO STIMULUS
				02-28-02	11:30	P	NO REACTION TO STIMULUS
				03-01-02	11:05	P	NO REACTION TO STIMULUS
				03-02-02	11:23	P	NO REACTION TO STIMULUS
				03-03-02	11:41	P	NO REACTION TO STIMULUS
				03-04-02	11:00	P	NO REACTION TO STIMULUS
				03-05-02	10:55	P	NO REACTION TO STIMULUS
				03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	NO REACTION TO STIMULUS
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	NO REACTION TO STIMULUS
				03-10-02	10:25	P	NO REACTION TO STIMULUS
				03-11-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-11	F	500 PPM	BEHAVIOR/CNS	03-12-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:00	P NO REACTION TO STIMULUS
				03-14-02	10:35	P NO REACTION TO STIMULUS
				03-15-02	10:40	P NO REACTION TO STIMULUS
				03-16-02	11:10	P NO REACTION TO STIMULUS
				03-17-02	11:05	P NO REACTION TO STIMULUS
				03-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:38	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P NO REACTION TO STIMULUS
				03-21-02	10:55	P NO REACTION TO STIMULUS
				03-22-02	11:08	P NO REACTION TO STIMULUS
				03-23-02	11:20	P NO REACTION TO STIMULUS
				03-24-02	11:07	P NO REACTION TO STIMULUS
				03-25-02	11:05	P NO REACTION TO STIMULUS
				03-26-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P NO REACTION TO STIMULUS
				03-28-02	11:48	P NO REACTION TO STIMULUS
				03-29-02	12:05	P NO REACTION TO STIMULUS
				03-30-02	12:10	P NO REACTION TO STIMULUS
				03-31-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:05	P NO REACTION TO STIMULUS
				04-02-02	11:20	P NO REACTION TO STIMULUS
				04-03-02	11:40	P NO REACTION TO STIMULUS
				04-04-02	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74838-11	F	500 PPM	BEHAVIOR/CNS	04-05-02	11:20	P NO REACTION TO STIMULUS
				04-06-02	11:09	P NO REACTION TO STIMULUS
				04-07-02	11:10	P NO REACTION TO STIMULUS
				04-08-02	11:10	P NO REACTION TO STIMULUS
				04-09-02	11:05	P NO REACTION TO STIMULUS
				04-11-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:40	P NO REACTION TO STIMULUS
				04-12-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P NO REACTION TO STIMULUS
				04-14-02	11:09	P NO REACTION TO STIMULUS
				04-15-02	11:10	P NO REACTION TO STIMULUS
				04-16-02	11:10	P NO REACTION TO STIMULUS
				04-17-02	11:25	P NO REACTION TO STIMULUS
				04-18-02	10:55	P NO REACTION TO STIMULUS
				04-25-02	11:25	P NO REACTION TO STIMULUS
				04-26-02	11:08	P NO REACTION TO STIMULUS
				04-27-02	11:06	P NO REACTION TO STIMULUS
				04-28-02	10:38	P NO REACTION TO STIMULUS
				04-29-02	11:35	P NO REACTION TO STIMULUS
				04-30-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:20	P NO REACTION TO STIMULUS
				05-02-02	11:00	P NO REACTION TO STIMULUS
				05-03-02	10:55	P NO REACTION TO STIMULUS
				05-04-02	10:29	P NO REACTION TO STIMULUS
				05-05-02	10:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74838-11	F	500 PPM	BEHAVIOR/CNS	05-07-02	10:55	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:15	P	NO REACTION TO STIMULUS
				05-09-02	11:10	P	NO REACTION TO STIMULUS
				05-10-02	10:55	P	NO REACTION TO STIMULUS
				05-11-02	10:10	P	NO REACTION TO STIMULUS
				05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-29-02	11:05	P	NO REACTION TO STIMULUS
				05-30-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	NO REACTION TO STIMULUS
				05-24-02	10:43	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863-10	F	500 PPM	BEHAVIOR/CNS	01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
				01-11-02	11:15	P	NO REACTION TO STIMULUS
				01-12-02	13:08	P	NO REACTION TO STIMULUS
				01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	10:55	P	NO REACTION TO STIMULUS
				01-16-02	11:14	P	NO REACTION TO STIMULUS
				01-17-02	11:00	P	NO REACTION TO STIMULUS
				01-18-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:35	P	NO REACTION TO STIMULUS
				01-20-02	10:55	P	NO REACTION TO STIMULUS
				01-21-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:08	P	NO REACTION TO STIMULUS
				01-24-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P	NO REACTION TO STIMULUS
				01-26-02	10:45	P	NO REACTION TO STIMULUS
				01-27-02	10:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863-10	F	500 PPM	BEHAVIOR/CNS	01-28-02	10:55	P	NO REACTION TO STIMULUS
				01-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:00	P	NO REACTION TO STIMULUS
				02-01-02	11:15	P	NO REACTION TO STIMULUS
				02-02-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:45	P	NO REACTION TO STIMULUS
				02-04-02	11:25	P	NO REACTION TO STIMULUS
				02-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	10:55	P	NO REACTION TO STIMULUS
				02-08-02	10:55	P	NO REACTION TO STIMULUS
				02-09-02	10:24	P	NO REACTION TO STIMULUS
				02-10-02	10:31	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:10	P	NO REACTION TO STIMULUS
				02-12-02	10:55	P	NO REACTION TO STIMULUS
				02-13-02	11:30	P	NO REACTION TO STIMULUS
				02-14-02	11:10	P	NO REACTION TO STIMULUS
				02-15-02	10:55	P	NO REACTION TO STIMULUS
				02-16-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74863-10	F	500 PPM	BEHAVIOR/CNS	02-19-02	10:55	P	STIMULUS WAS HEARD
				02-20-02	11:40	P	NO REACTION TO STIMULUS
				02-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	10:55	P	NO REACTION TO STIMULUS
				02-23-02	10:46	P	NO REACTION TO STIMULUS
				02-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:30	P	NO REACTION TO STIMULUS
				02-27-02	11:25	P	NO REACTION TO STIMULUS
				02-28-02	11:30	P	NO REACTION TO STIMULUS
				03-01-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:23	P	NO REACTION TO STIMULUS
				03-03-02	11:41	P	NO REACTION TO STIMULUS
				03-04-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:50	P	NO REACTION TO STIMULUS
				03-07-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:00	P	NO REACTION TO STIMULUS
				03-09-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:25	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-11-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74863-10	F	500 PPM	BEHAVIOR/CNS	03-12-02	11:15	P	STIMULUS WAS HEARD
				03-13-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-14-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:38	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-20-02	11:40	P	NO REACTION TO STIMULUS
				03-21-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:08	P	NO REACTION TO STIMULUS
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:20	P	NO REACTION TO STIMULUS
				03-28-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74863-10	F	500 PPM	BEHAVIOR/CNS	03-31-02	11:00	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:40	P	NO REACTION TO STIMULUS
				04-12-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:40	P	NO REACTION TO STIMULUS
				04-14-02	11:09	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74863-10	F	500 PPM	BEHAVIOR/CNS	04-17-02	11:25	P	STIMULUS WAS HEARD
				04-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:40	P	NO REACTION TO STIMULUS
				04-21-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:25	P	NO REACTION TO STIMULUS
				04-23-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-24-02	11:45	P	NO REACTION TO STIMULUS
				04-25-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-26-02	11:08	P	NO REACTION TO STIMULUS
				04-27-02	11:06	P	NO REACTION TO STIMULUS
				04-28-02	10:38	P	NO REACTION TO STIMULUS
				04-29-02	11:35	P	NO REACTION TO STIMULUS
				04-30-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
05-04-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863-10	F	500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			05-05-02	10:25	P	NO REACTION TO STIMULUS
			05-06-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-10-02	10:55	P	NO REACTION TO STIMULUS
			05-11-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-12-02	10:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-13-02	11:25	P	NO REACTION TO STIMULUS
			05-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-16-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-17-02	11:00	P	NO REACTION TO STIMULUS
			05-18-02	9:59	P	NO REACTION TO STIMULUS
			05-19-02	10:01	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-25-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-26-02	10:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74863-10	F	500 PPM	BEHAVIOR/CNS	05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74869-04	F	500 PPM	BEHAVIOR/CNS	05-24-02	10:43	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:15	P	NO REACTION TO STIMULUS
				01-04-02	11:35	P	NO REACTION TO STIMULUS
				01-05-02	12:10	P	NO REACTION TO STIMULUS
				01-06-02	11:45	P	NO REACTION TO STIMULUS
				01-07-02	11:25	P	NO REACTION TO STIMULUS
				01-08-02	12:00	P	NO REACTION TO STIMULUS
				01-09-02	11:30	P	NO REACTION TO STIMULUS
				01-10-02	11:40	P	NO REACTION TO STIMULUS
01-11-02	11:15	P	NO REACTION TO STIMULUS				
01-12-02	13:08	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-13-02	12:16	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-14-02	11:52	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-15-02	10:55	P	NO REACTION TO STIMULUS				
01-16-02	11:14	P	NO REACTION TO STIMULUS				
01-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-18-02	10:50	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-04	F	500 PPM	BEHAVIOR/CNS	01-19-02	10:35	P NO REACTION TO STIMULUS
				01-20-02	10:55	P NO REACTION TO STIMULUS
				01-21-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:01	P NO REACTION TO STIMULUS
				01-23-02	11:08	P NO REACTION TO STIMULUS
				01-24-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:00	P NO REACTION TO STIMULUS
				01-26-02	10:45	P NO REACTION TO STIMULUS
				01-27-02	10:25	P NO REACTION TO STIMULUS
				01-28-02	10:55	P NO REACTION TO STIMULUS
				01-29-02	10:55	P NO REACTION TO STIMULUS
				01-30-02	11:10	P NO REACTION TO STIMULUS
				01-31-02	11:00	P NO REACTION TO STIMULUS
				02-01-02	11:15	P NO REACTION TO STIMULUS
				02-02-02	11:24	P NO REACTION TO STIMULUS
				02-03-02	10:45	P NO REACTION TO STIMULUS
				02-04-02	11:25	P NO REACTION TO STIMULUS
				02-05-02	11:25	P NO REACTION TO STIMULUS
				02-06-02	11:40	P NO REACTION TO STIMULUS
				02-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	10:55	P NO REACTION TO STIMULUS
				02-09-02	10:24	P NO REACTION TO STIMULUS
				02-10-02	10:31	P NO REACTION TO STIMULUS
				02-11-02	11:10	P NO REACTION TO STIMULUS
				02-12-02	10:55	P NO REACTION TO STIMULUS
				02-13-02	11:30	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-04	F	500 PPM	BEHAVIOR/CNS	02-14-02	11:10	P NO REACTION TO STIMULUS
				02-15-02	10:55	P NO REACTION TO STIMULUS
				02-16-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:50	P NO REACTION TO STIMULUS
				02-18-02	11:20	P NO REACTION TO STIMULUS
				02-19-02	10:55	P NO REACTION TO STIMULUS
				02-20-02	11:40	P NO REACTION TO STIMULUS
				02-21-02	11:00	P NO REACTION TO STIMULUS
				02-22-02	10:55	P NO REACTION TO STIMULUS
				02-23-02	10:46	P NO REACTION TO STIMULUS
				02-25-02	11:05	P NO REACTION TO STIMULUS
				02-26-02	11:30	P NO REACTION TO STIMULUS
				02-27-02	11:25	P NO REACTION TO STIMULUS
				02-28-02	11:30	P NO REACTION TO STIMULUS
				03-01-02	11:05	P NO REACTION TO STIMULUS
				03-02-02	11:23	P NO REACTION TO STIMULUS
				03-03-02	11:41	P NO REACTION TO STIMULUS
				03-04-02	11:00	P NO REACTION TO STIMULUS
				03-05-02	10:55	P NO REACTION TO STIMULUS
				03-06-02	11:50	P NO REACTION TO STIMULUS
				03-07-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:00	P NO REACTION TO STIMULUS
				03-09-02	10:27	P NO REACTION TO STIMULUS
				03-10-02	10:25	P NO REACTION TO STIMULUS
				03-11-02	11:00	P NO REACTION TO STIMULUS
				03-12-02	11:15	P NO REACTION TO STIMULUS
				03-13-02	12:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-04	F	500 PPM	BEHAVIOR/CNS	03-14-02	10:35	P	NO REACTION TO STIMULUS
				03-15-02	10:40	P	NO REACTION TO STIMULUS
				03-16-02	11:10	P	NO REACTION TO STIMULUS
				03-17-02	11:05	P	NO REACTION TO STIMULUS
				03-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:38	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:40	P	NO REACTION TO STIMULUS
				03-21-02	10:55	P	NO REACTION TO STIMULUS
				03-22-02	11:08	P	NO REACTION TO STIMULUS
				03-23-02	11:20	P	NO REACTION TO STIMULUS
				03-24-02	11:07	P	NO REACTION TO STIMULUS
				03-25-02	11:05	P	NO REACTION TO STIMULUS
				03-26-02	11:15	P	NO REACTION TO STIMULUS
				03-27-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:48	P	NO REACTION TO STIMULUS
				03-29-02	12:05	P	NO REACTION TO STIMULUS
				03-30-02	12:10	P	NO REACTION TO STIMULUS
				03-31-02	11:00	P	NO REACTION TO STIMULUS
				04-01-02	12:05	P	NO REACTION TO STIMULUS
				04-02-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:40	P	NO REACTION TO STIMULUS
				04-04-02	11:15	P	NO REACTION TO STIMULUS
				04-05-02	11:20	P	NO REACTION TO STIMULUS
				04-06-02	11:09	P	NO REACTION TO STIMULUS
				04-07-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-04	F	500 PPM	BEHAVIOR/CNS	04-08-02	11:10	P NO REACTION TO STIMULUS
				04-09-02	11:05	P NO REACTION TO STIMULUS
				04-11-02	10:55	P NO REACTION TO STIMULUS
				04-10-02	11:40	P NO REACTION TO STIMULUS
				04-12-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:40	P NO REACTION TO STIMULUS
				04-14-02	11:09	P NO REACTION TO STIMULUS
				04-15-02	11:10	P NO REACTION TO STIMULUS
				04-16-02	11:10	P NO REACTION TO STIMULUS
				04-17-02	11:25	P NO REACTION TO STIMULUS
				04-18-02	10:55	P NO REACTION TO STIMULUS
				04-19-02	10:45	P NO REACTION TO STIMULUS
				04-20-02	10:40	P NO REACTION TO STIMULUS
				04-21-02	10:40	P NO REACTION TO STIMULUS
				04-29-02	11:35	P NO REACTION TO STIMULUS
				04-30-02	11:05	P NO REACTION TO STIMULUS
				05-01-02	11:20	P NO REACTION TO STIMULUS
				05-02-02	11:00	P NO REACTION TO STIMULUS
				05-03-02	10:55	P NO REACTION TO STIMULUS
				05-04-02	10:29	P NO REACTION TO STIMULUS
				05-05-02	10:25	P NO REACTION TO STIMULUS
				05-06-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	10:55	P NO REACTION TO STIMULUS
				05-08-02	11:15	P NO REACTION TO STIMULUS
				05-09-02	11:10	P NO REACTION TO STIMULUS
				05-10-02	10:55	P NO REACTION TO STIMULUS
				05-11-02	10:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74869-04	F	500 PPM	BEHAVIOR/CNS	05-12-02	10:10	P	NO REACTION TO STIMULUS
				05-13-02	11:25	P	NO REACTION TO STIMULUS
				05-14-02	10:45	P	NO REACTION TO STIMULUS
				05-15-02	11:05	P	NO REACTION TO STIMULUS
				05-16-02	11:00	P	NO REACTION TO STIMULUS
				05-17-02	11:00	P	NO REACTION TO STIMULUS
				05-18-02	9:59	P	NO REACTION TO STIMULUS
				05-19-02	10:01	P	NO REACTION TO STIMULUS
				05-25-02	10:35	P	NO REACTION TO STIMULUS
				05-26-02	10:30	P	NO REACTION TO STIMULUS
				05-27-02	10:10	P	NO REACTION TO STIMULUS
				05-28-02	11:55	P	NO REACTION TO STIMULUS
				05-29-02	11:05	P	NO REACTION TO STIMULUS
				05-30-02	11:09	P	NO REACTION TO STIMULUS
				05-20-02	10:30	P	NO REACTION TO STIMULUS
				05-21-02	11:05	P	NO REACTION TO STIMULUS
				05-22-02	11:08	P	NO REACTION TO STIMULUS
				05-23-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-24-02	10:43	P	NO REACTION TO STIMULUS
				02-24-02	10:27	P	NO REACTION TO STIMULUS
74739-08	F	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-08	F	1000 PPM	BEHAVIOR/CNS	01-10-02	11:45	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-08	F	1000 PPM	BEHAVIOR/CNS	01-27-02	10:30	P	STIMULUS WAS HEARD
				01-28-02	11:00	P	NO REACTION TO STIMULUS
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-02-02	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P	NO REACTION TO STIMULUS
				02-07-02	11:00	P	NO REACTION TO STIMULUS
				02-08-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:29	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-10-02	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P	NO REACTION TO STIMULUS
				02-12-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74739-08	F	1000 PPM	BEHAVIOR/CNS	02-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-14-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-18-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:00	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS
				03-02-02	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:46	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-08	F	1000 PPM	BEHAVIOR/CNS	03-04-02	11:05	P	STIMULUS WAS HEARD
				03-05-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	11:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:05	P	NO REACTION TO STIMULUS
				03-09-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P	NO REACTION TO STIMULUS
				03-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:20	P	NO REACTION TO STIMULUS
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	NO REACTION TO STIMULUS
03-18-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)				
03-19-02	11:43	P	NO REACTION TO STIMULUS				
03-20-02	11:45	P	NO REACTION TO STIMULUS				
03-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-08	F	1000 PPM	BEHAVIOR/CNS	03-22-02	11:13	P	STIMULUS WAS HEARD
				03-23-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	NO REACTION TO STIMULUS
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74739-08	F	1000 PPM	BEHAVIOR/CNS	04-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-23-02	11:15	P	NO REACTION TO STIMULUS
				04-24-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-29-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74739-08	F	1000 PPM	BEHAVIOR/CNS	04-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:00	P	NO REACTION TO STIMULUS
				05-04-02	10:35	P	NO REACTION TO STIMULUS
				05-05-02	10:30	P	NO REACTION TO STIMULUS
				05-06-02	10:55	P	NO REACTION TO STIMULUS
				05-07-02	11:00	P	NO REACTION TO STIMULUS
				05-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	NO REACTION TO STIMULUS
				05-11-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:30	P	NO REACTION TO STIMULUS
				05-14-02	10:50	P	NO REACTION TO STIMULUS
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74739-08	F	1000 PPM	BEHAVIOR/CNS	05-25-02	10:40	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				05-26-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:32	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74744-16	F	1000 PPM	BEHAVIOR/CNS	01-11-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	02-05-02	11:30	P VOCALIZATION) NO REACTION TO STIMULUS
				02-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-08-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:29	P NO REACTION TO STIMULUS
				02-10-02	10:36	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P NO REACTION TO STIMULUS
				02-15-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-16-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-17-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS		
74744-16	F	BEHAVIOR/CNS	1000	PPM	P	STIMULUS WAS HEARD		
						02-22-02	11:00	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						02-23-02	10:51	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						02-25-02	11:10	NO REACTION TO STIMULUS
						02-26-02	11:35	NO REACTION TO STIMULUS
						02-27-02	11:30	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						02-28-02	11:35	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-01-02	11:10	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-02-02	11:28	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-03-02	11:46	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						03-04-02	11:05	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-05-02	11:00	NO REACTION TO STIMULUS
						03-06-02	11:55	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-07-02	10:55	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						03-08-02	11:05	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
03-09-02	10:32	NO REACTION TO STIMULUS						
03-10-02	10:30	NO REACTION TO STIMULUS						
03-11-02	11:05	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE						

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	03-12-02	11:20	P VOCALIZATION) MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P NO REACTION TO STIMULUS
				03-15-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-16-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P NO REACTION TO STIMULUS
				03-18-02	11:05	P NO REACTION TO STIMULUS
				03-19-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P NO REACTION TO STIMULUS
				03-21-02	11:00	P NO REACTION TO STIMULUS
				03-22-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-26-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	03-29-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P NO REACTION TO STIMULUS
				04-05-02	11:25	P NO REACTION TO STIMULUS
				04-06-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P NO REACTION TO STIMULUS
				04-08-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:14	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	04-15-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:50	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:30	P NO REACTION TO STIMULUS
				04-23-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:50	P NO REACTION TO STIMULUS
				04-25-02	11:30	P NO REACTION TO STIMULUS
				04-26-02	11:13	P NO REACTION TO STIMULUS
				04-27-02	11:11	P NO REACTION TO STIMULUS
				04-28-02	10:43	P NO REACTION TO STIMULUS
				04-29-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-30-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	05-03-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P NO REACTION TO STIMULUS
				05-09-02	11:15	P NO REACTION TO STIMULUS
				05-10-02	11:00	P NO REACTION TO STIMULUS
				05-11-02	10:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:30	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-14-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74744-16	F	1000 PPM	BEHAVIOR/CNS	05-25-02	10:40	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-29-02	11:10	P	NO REACTION TO STIMULUS
				05-30-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-23-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74806-11	F	1000 PPM	BEHAVIOR/CNS	02-24-02	10:32	P	NO REACTION TO STIMULUS
				01-02-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74806-11	F	1000 PPM	BEHAVIOR/CNS	01-09-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P NO REACTION TO STIMULUS
				01-11-02	11:20	P NO REACTION TO STIMULUS
				01-12-02	13:13	P NO REACTION TO STIMULUS
				01-13-02	12:21	P NO REACTION TO STIMULUS
				01-14-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:55	P NO REACTION TO STIMULUS
				01-19-02	10:40	P NO REACTION TO STIMULUS
				01-20-02	11:00	P NO REACTION TO STIMULUS
				01-21-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P NO REACTION TO STIMULUS
				01-27-02	10:30	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74806-11	F	1000 PPM	BEHAVIOR/CNS	01-28-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P NO REACTION TO STIMULUS
				01-31-02	11:05	P NO REACTION TO STIMULUS
				02-01-02	11:20	P NO REACTION TO STIMULUS
				02-02-02	11:29	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-04-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:36	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:00	P NO REACTION TO STIMULUS
				02-13-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74806-11	F	1000 PPM	BEHAVIOR/CNS	02-14-02	11:15	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:25	P	NO REACTION TO STIMULUS
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:10	P	NO REACTION TO STIMULUS
				02-26-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS
				03-02-02	11:28	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:46	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74806-11	F	1000 PPM	BEHAVIOR/CNS	03-05-02	11:00	P	STIMULUS WAS HEARD
				03-06-02	11:55	P	NO REACTION TO STIMULUS
				03-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:45	P	NO REACTION TO STIMULUS
				03-16-02	11:15	P	NO REACTION TO STIMULUS
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:43	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74806-11	F	1000 PPM	BEHAVIOR/CNS	03-21-02	11:00	P	STIMULUS WAS HEARD
				03-22-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:14	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74806-11	F	1000 PPM	BEHAVIOR/CNS	04-07-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-20-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:43	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74806-11	F	1000 PPM	BEHAVIOR/CNS	04-29-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:35	P	NO REACTION TO STIMULUS
				05-05-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P	NO REACTION TO STIMULUS
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74806-11	F	1000 PPM	BEHAVIOR/CNS	05-16-02	11:05	P	NO REACTION TO STIMULUS
				05-17-02	11:05	P	NO REACTION TO STIMULUS
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-28-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-29-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74820-12	F	1000 PPM	BEHAVIOR/CNS	01-03-02	11:20	P	NO REACTION TO STIMULUS
				01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820-12	F	1000 PPM	BEHAVIOR/CNS	01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	NO REACTION TO STIMULUS
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	NO REACTION TO STIMULUS
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	NO REACTION TO STIMULUS
				01-31-02	11:05	P	NO REACTION TO STIMULUS
				02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74820-12	F	1000 PPM	BEHAVIOR/CNS	02-06-02	11:45	P	STIMULUS WAS HEARD
				02-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:00	P	NO REACTION TO STIMULUS
				02-09-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:36	P	NO REACTION TO STIMULUS
				02-11-02	11:15	P	NO REACTION TO STIMULUS
				02-12-02	11:00	P	NO REACTION TO STIMULUS
				02-13-02	11:35	P	NO REACTION TO STIMULUS
				02-14-02	11:15	P	NO REACTION TO STIMULUS
				02-15-02	11:00	P	NO REACTION TO STIMULUS
				02-16-02	10:55	P	NO REACTION TO STIMULUS
				02-17-02	10:55	P	NO REACTION TO STIMULUS
				02-18-02	11:25	P	NO REACTION TO STIMULUS
				02-19-02	11:00	P	NO REACTION TO STIMULUS
				02-20-02	11:45	P	NO REACTION TO STIMULUS
				02-21-02	11:05	P	NO REACTION TO STIMULUS
				02-22-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-25-02	11:10	P	NO REACTION TO STIMULUS
				02-26-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820-12	F	1000 PPM	BEHAVIOR/CNS	03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	NO REACTION TO STIMULUS
				03-04-02	11:05	P	NO REACTION TO STIMULUS
				03-05-02	11:00	P	NO REACTION TO STIMULUS
				03-06-02	11:55	P	NO REACTION TO STIMULUS
				03-07-02	10:55	P	NO REACTION TO STIMULUS
				03-08-02	11:05	P	NO REACTION TO STIMULUS
				03-09-02	10:32	P	NO REACTION TO STIMULUS
				03-10-02	10:30	P	NO REACTION TO STIMULUS
				03-11-02	11:05	P	NO REACTION TO STIMULUS
				03-12-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P	NO REACTION TO STIMULUS
				03-14-02	10:40	P	NO REACTION TO STIMULUS
				03-15-02	10:45	P	NO REACTION TO STIMULUS
				03-16-02	11:15	P	NO REACTION TO STIMULUS
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	NO REACTION TO STIMULUS
				03-19-02	11:43	P	NO REACTION TO STIMULUS
				03-20-02	11:45	P	NO REACTION TO STIMULUS
				03-21-02	11:00	P	NO REACTION TO STIMULUS
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	NO REACTION TO STIMULUS
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820-12	F	1000 PPM	BEHAVIOR/CNS	03-29-02	12:10	P	NO REACTION TO STIMULUS
				03-30-02	12:15	P	NO REACTION TO STIMULUS
				03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	NO REACTION TO STIMULUS
				04-03-02	11:45	P	NO REACTION TO STIMULUS
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	NO REACTION TO STIMULUS
				04-06-02	11:14	P	NO REACTION TO STIMULUS
				04-07-02	11:15	P	NO REACTION TO STIMULUS
				04-08-02	11:15	P	NO REACTION TO STIMULUS
				04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	NO REACTION TO STIMULUS
				04-13-02	10:45	P	NO REACTION TO STIMULUS
				04-14-02	11:14	P	NO REACTION TO STIMULUS
				04-15-02	11:15	P	NO REACTION TO STIMULUS
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	NO REACTION TO STIMULUS
				04-18-02	11:00	P	NO REACTION TO STIMULUS
				04-19-02	10:50	P	NO REACTION TO STIMULUS
				04-26-02	11:13	P	NO REACTION TO STIMULUS
				04-27-02	11:11	P	NO REACTION TO STIMULUS
				04-28-02	10:43	P	NO REACTION TO STIMULUS
				04-29-02	10:55	P	NO REACTION TO STIMULUS
				04-30-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820-12	F	1000 PPM	BEHAVIOR/CNS	05-01-02	11:25	P	NO REACTION TO STIMULUS
				05-02-02	11:05	P	NO REACTION TO STIMULUS
				05-03-02	11:00	P	NO REACTION TO STIMULUS
				05-04-02	10:35	P	NO REACTION TO STIMULUS
				05-05-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:55	P	NO REACTION TO STIMULUS
				05-07-02	11:00	P	NO REACTION TO STIMULUS
				05-08-02	11:20	P	NO REACTION TO STIMULUS
				05-09-02	11:15	P	NO REACTION TO STIMULUS
				05-10-02	11:00	P	NO REACTION TO STIMULUS
				05-11-02	10:15	P	NO REACTION TO STIMULUS
				05-12-02	10:15	P	NO REACTION TO STIMULUS
				05-13-02	11:30	P	NO REACTION TO STIMULUS
				05-14-02	10:50	P	NO REACTION TO STIMULUS
				05-15-02	11:10	P	NO REACTION TO STIMULUS
				05-16-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:05	P	NO REACTION TO STIMULUS
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-28-02	12:00	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74820-12	F	1000 PPM	BEHAVIOR/CNS	05-23-02	11:00	P	VOCALIZATION) NO REACTION TO STIMULUS
				05-24-02	10:48	P	NO REACTION TO STIMULUS
				02-24-02	10:32	P	NO REACTION TO STIMULUS
74831-12	F	1000 PPM	BEHAVIOR/CNS	01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	NO REACTION TO STIMULUS
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	NO REACTION TO STIMULUS
				01-19-02	10:40	P	NO REACTION TO STIMULUS
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	NO REACTION TO STIMULUS
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P	NO REACTION TO STIMULUS
				01-25-02	11:05	P	NO REACTION TO STIMULUS
				01-26-02	10:50	P	NO REACTION TO STIMULUS
				01-27-02	10:30	P	NO REACTION TO STIMULUS
				01-28-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2465 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-12	F	1000 PPM	BEHAVIOR/CNS	01-29-02	11:00	P NO REACTION TO STIMULUS
				01-30-02	11:15	P NO REACTION TO STIMULUS
				01-31-02	11:05	P NO REACTION TO STIMULUS
				02-01-02	11:20	P NO REACTION TO STIMULUS
				02-02-02	11:29	P NO REACTION TO STIMULUS
				02-03-02	10:50	P NO REACTION TO STIMULUS
				02-04-02	11:30	P NO REACTION TO STIMULUS
				02-05-02	11:30	P NO REACTION TO STIMULUS
				02-06-02	11:45	P NO REACTION TO STIMULUS
				02-07-02	11:00	P NO REACTION TO STIMULUS
				02-08-02	11:00	P NO REACTION TO STIMULUS
				02-09-02	10:29	P NO REACTION TO STIMULUS
				02-10-02	10:36	P NO REACTION TO STIMULUS
				02-11-02	11:15	P NO REACTION TO STIMULUS
				02-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P NO REACTION TO STIMULUS
				02-15-02	11:00	P NO REACTION TO STIMULUS
				02-16-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:55	P NO REACTION TO STIMULUS
				02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P NO REACTION TO STIMULUS
				02-20-02	11:45	P NO REACTION TO STIMULUS
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-25-02	11:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2466 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-12	F	1000 PPM	BEHAVIOR/CNS	02-26-02	11:35	P NO REACTION TO STIMULUS
				02-27-02	11:30	P NO REACTION TO STIMULUS
				02-28-02	11:35	P NO REACTION TO STIMULUS
				03-01-02	11:10	P NO REACTION TO STIMULUS
				03-02-02	11:28	P NO REACTION TO STIMULUS
				03-03-02	11:46	P NO REACTION TO STIMULUS
				03-04-02	11:05	P NO REACTION TO STIMULUS
				03-05-02	11:00	P NO REACTION TO STIMULUS
				03-06-02	11:55	P NO REACTION TO STIMULUS
				03-07-02	10:55	P NO REACTION TO STIMULUS
				03-08-02	11:05	P NO REACTION TO STIMULUS
				03-09-02	10:32	P NO REACTION TO STIMULUS
				03-10-02	10:30	P NO REACTION TO STIMULUS
				03-11-02	11:05	P NO REACTION TO STIMULUS
				03-12-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P NO REACTION TO STIMULUS
				03-15-02	10:45	P NO REACTION TO STIMULUS
				03-16-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P NO REACTION TO STIMULUS
				03-19-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:00	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-12	F	1000 PPM	BEHAVIOR/CNS	03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	NO REACTION TO STIMULUS
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	NO REACTION TO STIMULUS
				03-30-02	12:15	P	NO REACTION TO STIMULUS
				03-31-02	11:05	P	NO REACTION TO STIMULUS
				04-01-02	12:10	P	NO REACTION TO STIMULUS
				04-02-02	11:25	P	NO REACTION TO STIMULUS
				04-03-02	11:45	P	NO REACTION TO STIMULUS
				04-04-02	11:20	P	NO REACTION TO STIMULUS
				04-05-02	11:25	P	NO REACTION TO STIMULUS
				04-06-02	11:14	P	NO REACTION TO STIMULUS
				04-07-02	11:15	P	NO REACTION TO STIMULUS
				04-08-02	11:15	P	NO REACTION TO STIMULUS
				04-09-02	11:10	P	NO REACTION TO STIMULUS
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	NO REACTION TO STIMULUS
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	NO REACTION TO STIMULUS
				04-14-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:15	P	NO REACTION TO STIMULUS
				04-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-12	F	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-17-02	11:30	P	NO REACTION TO STIMULUS
			04-18-02	11:00	P	NO REACTION TO STIMULUS
			04-19-02	10:50	P	NO REACTION TO STIMULUS
			04-21-02	10:45	P	NO REACTION TO STIMULUS
			04-20-02	10:45	P	NO REACTION TO STIMULUS
			04-22-02	11:30	P	NO REACTION TO STIMULUS
			04-29-02	10:55	P	NO REACTION TO STIMULUS
			04-30-02	11:10	P	NO REACTION TO STIMULUS
			05-01-02	11:25	P	NO REACTION TO STIMULUS
			05-02-02	11:05	P	NO REACTION TO STIMULUS
			05-03-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-04-02	10:35	P	NO REACTION TO STIMULUS
			05-05-02	10:30	P	NO REACTION TO STIMULUS
			05-06-02	10:55	P	NO REACTION TO STIMULUS
			05-07-02	11:00	P	NO REACTION TO STIMULUS
			05-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-09-02	11:15	P	NO REACTION TO STIMULUS
			05-10-02	11:00	P	NO REACTION TO STIMULUS
			05-11-02	10:15	P	NO REACTION TO STIMULUS
			05-12-02	10:15	P	NO REACTION TO STIMULUS
			05-13-02	11:30	P	NO REACTION TO STIMULUS
			05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-16-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74831-12	F	1000 PPM	BEHAVIOR/CNS	05-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	NO REACTION TO STIMULUS
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	NO REACTION TO STIMULUS
				05-27-02	10:15	P	NO REACTION TO STIMULUS
				05-28-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	NO REACTION TO STIMULUS
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	NO REACTION TO STIMULUS
				02-24-02	10:32	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74834-07	F	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	NO REACTION TO STIMULUS
				01-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:21	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	01-14-02	11:30	P	NO REACTION TO STIMULUS
				01-15-02	11:00	P	NO REACTION TO STIMULUS
				01-16-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P	NO REACTION TO STIMULUS
				01-23-02	11:13	P	NO REACTION TO STIMULUS
				01-24-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-25-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-27-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	02-01-02	11:20	P	NO REACTION TO STIMULUS
				02-02-02	11:29	P	NO REACTION TO STIMULUS
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:29	P	NO REACTION TO STIMULUS
				02-10-02	10:36	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P	NO REACTION TO STIMULUS
				02-14-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	10:55	P	NO REACTION TO STIMULUS
				02-18-02	11:25	P	NO REACTION TO STIMULUS
				02-19-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:05	P	NO REACTION TO STIMULUS
				02-22-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-26-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-27-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-28-02	11:35	P	NO REACTION TO STIMULUS
				03-01-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-02-02	11:28	P	NO REACTION TO STIMULUS
				03-03-02	11:46	P	NO REACTION TO STIMULUS
				03-04-02	11:05	P	NO REACTION TO STIMULUS
				03-05-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:55	P	NO REACTION TO STIMULUS
				03-07-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-09-02	10:32	P	NO REACTION TO STIMULUS
				03-10-02	10:30	P	NO REACTION TO STIMULUS
				03-11-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	03-12-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-13-02	12:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:45	P	NO REACTION TO STIMULUS
				03-16-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:43	P	NO REACTION TO STIMULUS
				03-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:12	P	NO REACTION TO STIMULUS
				03-25-02	11:10	P	NO REACTION TO STIMULUS
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:53	P	NO REACTION TO STIMULUS
				03-29-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	03-31-02	11:05	P VOCALIZATION)
				04-01-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P NO REACTION TO STIMULUS
				04-03-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:25	P NO REACTION TO STIMULUS
				04-06-02	11:14	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P NO REACTION TO STIMULUS
				04-08-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:14	P NO REACTION TO STIMULUS
				04-15-02	11:15	P NO REACTION TO STIMULUS
				04-16-02	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	04-17-02	11:30	P	NO REACTION TO STIMULUS
				04-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-19-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:43	P	NO REACTION TO STIMULUS
				04-29-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-01-02	11:25	P	NO REACTION TO STIMULUS
				05-02-02	11:05	P	NO REACTION TO STIMULUS
				05-03-02	11:00	P	NO REACTION TO STIMULUS
				05-04-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-05-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	10:55	P	NO REACTION TO STIMULUS
				05-07-02	11:00	P	NO REACTION TO STIMULUS
				05-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74834-07	F	1000 PPM	BEHAVIOR/CNS	05-12-02	10:15	P VOCALIZATION)
				05-13-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:50	P NO REACTION TO STIMULUS
				05-15-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:05	P NO REACTION TO STIMULUS
				05-17-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-18-02	10:04	P NO REACTION TO STIMULUS
				05-19-02	10:07	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:35	P NO REACTION TO STIMULUS
				05-21-02	11:10	P NO REACTION TO STIMULUS
				05-22-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-23-02	11:00	P NO REACTION TO STIMULUS
				05-24-02	10:48	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-24-02	10:32	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-11	F	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P	NO REACTION TO STIMULUS
				01-05-02	12:15	P	NO REACTION TO STIMULUS
				01-06-02	11:50	P	NO REACTION TO STIMULUS
				01-07-02	11:30	P	NO REACTION TO STIMULUS
				01-08-02	12:05	P	NO REACTION TO STIMULUS
				01-09-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-10-02	11:45	P	NO REACTION TO STIMULUS
				01-11-02	11:20	P	NO REACTION TO STIMULUS
				01-12-02	13:13	P	NO REACTION TO STIMULUS
				01-13-02	12:21	P	NO REACTION TO STIMULUS
				01-14-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:05	P	NO REACTION TO STIMULUS
				01-18-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:00	P	NO REACTION TO STIMULUS
				01-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:06	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:13	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-11	F	1000 PPM	BEHAVIOR/CNS	01-25-02	11:05	P	STIMULUS WAS HEARD
				01-26-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:50	P	NO REACTION TO STIMULUS
				02-04-02	11:30	P	NO REACTION TO STIMULUS
				02-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P	NO REACTION TO STIMULUS
				02-08-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:29	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-11	F	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-10-02	10:36	P	NO REACTION TO STIMULUS
			02-11-02	11:15	P	NO REACTION TO STIMULUS
			02-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-14-02	11:15	P	NO REACTION TO STIMULUS
			02-15-02	11:00	P	NO REACTION TO STIMULUS
			02-16-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-18-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-19-02	11:00	P	NO REACTION TO STIMULUS
			02-20-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-21-02	11:05	P	NO REACTION TO STIMULUS
			02-22-02	11:00	P	NO REACTION TO STIMULUS
			02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-25-02	11:10	P	NO REACTION TO STIMULUS
			02-26-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-27-02	11:30	P	NO REACTION TO STIMULUS
			02-28-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-01-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-11	F	1000 PPM	BEHAVIOR/CNS	03-02-02	11:28	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:46	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-06-02	11:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:32	P NO REACTION TO STIMULUS
				03-10-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-11	F	1000 PPM	BEHAVIOR/CNS	03-17-02	11:10	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:05	P	NO REACTION TO STIMULUS
				03-19-02	11:43	P	NO REACTION TO STIMULUS
				03-20-02	11:45	P	NO REACTION TO STIMULUS
				03-21-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:13	P	NO REACTION TO STIMULUS
				03-23-02	11:25	P	NO REACTION TO STIMULUS
				03-24-02	11:12	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P	NO REACTION TO STIMULUS
				03-27-02	11:25	P	NO REACTION TO STIMULUS
				03-28-02	11:53	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-29-02	12:10	P	NO REACTION TO STIMULUS
				03-30-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-31-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-11	F	1000 PPM	BEHAVIOR/CNS	04-05-02	11:25	P	STIMULUS WAS HEARD
				04-06-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:15	P	NO REACTION TO STIMULUS
				04-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P	NO REACTION TO STIMULUS
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-14-02	11:14	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:00	P	NO REACTION TO STIMULUS
				04-19-02	10:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-20-02	10:45	P	NO REACTION TO STIMULUS
				04-21-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74850-11	F	1000 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-29-02	10:55	P	NO REACTION TO STIMULUS
			04-30-02	11:10	P	NO REACTION TO STIMULUS
			05-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-02-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-03-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-04-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-05-02	10:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-06-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-07-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-08-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-09-02	11:15	P	NO REACTION TO STIMULUS
			05-10-02	11:00	P	NO REACTION TO STIMULUS
			05-11-02	10:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-12-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-13-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-14-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-15-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74850-11	F	1000 PPM	BEHAVIOR/CNS	05-16-02	11:05	P	STIMULUS WAS HEARD MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:40	P	NO REACTION TO STIMULUS
				05-26-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-29-02	11:10	P	NO REACTION TO STIMULUS
				05-30-02	11:14	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:13	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-23-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:48	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
74855-11	F	1000 PPM	BEHAVIOR/CNS	02-24-02	10:32	P	NO REACTION TO STIMULUS
				01-03-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	01-04-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:15	P NO REACTION TO STIMULUS
				01-06-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-07-02	11:30	P NO REACTION TO STIMULUS
				01-08-02	12:05	P NO REACTION TO STIMULUS
				01-09-02	11:35	P NO REACTION TO STIMULUS
				01-10-02	11:45	P NO REACTION TO STIMULUS
				01-11-02	11:20	P NO REACTION TO STIMULUS
				01-12-02	13:13	P NO REACTION TO STIMULUS
				01-13-02	12:21	P NO REACTION TO STIMULUS
				01-14-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:00	P NO REACTION TO STIMULUS
				01-16-02	11:19	P NO REACTION TO STIMULUS
				01-17-02	11:05	P NO REACTION TO STIMULUS
				01-18-02	10:55	P NO REACTION TO STIMULUS
				01-19-02	10:40	P NO REACTION TO STIMULUS
				01-20-02	11:00	P NO REACTION TO STIMULUS
				01-21-02	11:15	P NO REACTION TO STIMULUS
				01-22-02	11:06	P NO REACTION TO STIMULUS
				01-23-02	11:13	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:05	P NO REACTION TO STIMULUS
				01-25-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:50	P NO REACTION TO STIMULUS
				01-27-02	10:30	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	01-28-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:00	P NO REACTION TO STIMULUS
				01-30-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:20	P NO REACTION TO STIMULUS
				02-02-02	11:29	P NO REACTION TO STIMULUS
				02-03-02	10:50	P NO REACTION TO STIMULUS
				02-04-02	11:30	P NO REACTION TO STIMULUS
				02-05-02	11:30	P NO REACTION TO STIMULUS
				02-06-02	11:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:00	P NO REACTION TO STIMULUS
				02-08-02	11:00	P NO REACTION TO STIMULUS
				02-09-02	10:29	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:36	P NO REACTION TO STIMULUS
				02-11-02	11:15	P NO REACTION TO STIMULUS
				02-12-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:35	P NO REACTION TO STIMULUS
				02-14-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:00	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-16-02	10:55	P NO REACTION TO STIMULUS
				02-17-02	10:55	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	02-18-02	11:25	P NO REACTION TO STIMULUS
				02-19-02	11:00	P NO REACTION TO STIMULUS
				02-20-02	11:45	P NO REACTION TO STIMULUS
				02-21-02	11:05	P NO REACTION TO STIMULUS
				02-22-02	11:00	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-25-02	11:10	P NO REACTION TO STIMULUS
				02-26-02	11:35	P NO REACTION TO STIMULUS
				02-27-02	11:30	P NO REACTION TO STIMULUS
				02-28-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:28	P NO REACTION TO STIMULUS
				03-03-02	11:46	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:00	P NO REACTION TO STIMULUS
				03-06-02	11:55	P NO REACTION TO STIMULUS
				03-07-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-08-02	11:05	P NO REACTION TO STIMULUS
				03-09-02	10:32	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:05	P NO REACTION TO STIMULUS
				03-12-02	11:20	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	03-13-02	12:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:10	P NO REACTION TO STIMULUS
				03-18-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:45	P NO REACTION TO STIMULUS
				03-21-02	11:00	P NO REACTION TO STIMULUS
				03-22-02	11:13	P NO REACTION TO STIMULUS
				03-23-02	11:25	P NO REACTION TO STIMULUS
				03-24-02	11:12	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-26-02	11:20	P NO REACTION TO STIMULUS
				03-27-02	11:25	P NO REACTION TO STIMULUS
				03-28-02	11:53	P NO REACTION TO STIMULUS
				03-29-02	12:10	P NO REACTION TO STIMULUS
				03-30-02	12:15	P NO REACTION TO STIMULUS
				03-31-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74855-11	F	1000 PPM	BEHAVIOR/CNS	04-02-02	11:25	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-03-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-05-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-07-02	11:15	P	NO REACTION TO STIMULUS
				04-08-02	11:15	P	NO REACTION TO STIMULUS
				04-09-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:00	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-10-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:14	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:15	P	NO REACTION TO STIMULUS
				04-17-02	11:30	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	04-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:30	P NO REACTION TO STIMULUS
				04-26-02	11:13	P NO REACTION TO STIMULUS
				04-27-02	11:11	P NO REACTION TO STIMULUS
				04-28-02	10:43	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	10:55	P NO REACTION TO STIMULUS
				04-30-02	11:10	P NO REACTION TO STIMULUS
				05-01-02	11:25	P NO REACTION TO STIMULUS
				05-02-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	11:00	P NO REACTION TO STIMULUS
				05-04-02	10:35	P NO REACTION TO STIMULUS
				05-05-02	10:30	P NO REACTION TO STIMULUS
				05-06-02	10:55	P NO REACTION TO STIMULUS
				05-07-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:20	P NO REACTION TO STIMULUS
				05-09-02	11:15	P NO REACTION TO STIMULUS
				05-10-02	11:00	P NO REACTION TO STIMULUS
				05-11-02	10:15	P NO REACTION TO STIMULUS
				05-12-02	10:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:30	P NO REACTION TO STIMULUS
				05-14-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:10	P NO REACTION TO STIMULUS
				05-16-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74855-11	F	1000 PPM	BEHAVIOR/CNS	05-17-02	11:05	P	VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:04	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:07	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-25-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:00	P	NO REACTION TO STIMULUS
				05-20-02	10:35	P	NO REACTION TO STIMULUS
				05-21-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:13	P	NO REACTION TO STIMULUS
				05-23-02	11:00	P	NO REACTION TO STIMULUS
				05-24-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74768-11	F	2500 PPM	BEHAVIOR/CNS	02-24-02	10:32	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-09-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74768-11	F	2500 PPM	BEHAVIOR/CNS	01-10-02	11:50	P	STIMULUS WAS HEARD
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-13-02	12:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	NO REACTION TO STIMULUS
				01-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P	NO REACTION TO STIMULUS
				01-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74768-11	F	2500 PPM	BEHAVIOR/CNS	01-28-02	11:05	P VOCALIZATION)
				01-29-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-01-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:34	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-03-02	10:55	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-04-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:35	P NO REACTION TO STIMULUS
				02-06-02	11:50	P NO REACTION TO STIMULUS
				02-07-02	11:05	P NO REACTION TO STIMULUS
				02-08-02	11:05	P NO REACTION TO STIMULUS
				02-09-02	10:34	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:41	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-13-02	11:40	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74768-11	F	2500 PPM	BEHAVIOR/CNS	02-14-02	11:20	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:05	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	NO REACTION TO STIMULUS
				02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	NO REACTION TO STIMULUS
				03-02-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:51	P	NO REACTION TO STIMULUS
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	NO REACTION TO STIMULUS
				03-06-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74768-11	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-07-02	11:00	P	NO REACTION TO STIMULUS
			03-08-02	11:10	P	NO REACTION TO STIMULUS
			03-09-02	10:37	P	NO REACTION TO STIMULUS
			03-10-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-12-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-13-02	12:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-14-02	10:45	P	NO REACTION TO STIMULUS
			03-15-02	10:50	P	NO REACTION TO STIMULUS
			03-16-02	11:20	P	NO REACTION TO STIMULUS
			03-17-02	11:15	P	NO REACTION TO STIMULUS
			03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-19-02	11:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-21-02	11:05	P	NO REACTION TO STIMULUS
			03-22-02	11:18	P	NO REACTION TO STIMULUS
			03-23-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-24-02	11:17	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-25-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74768-11	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-26-02	11:25	P	NO REACTION TO STIMULUS
			03-27-02	11:30	P	NO REACTION TO STIMULUS
			03-28-02	11:58	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-29-02	12:15	P	NO REACTION TO STIMULUS
			03-30-02	12:20	P	NO REACTION TO STIMULUS
			03-31-02	11:10	P	NO REACTION TO STIMULUS
			04-01-02	12:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-02-02	11:30	P	NO REACTION TO STIMULUS
			04-03-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-06-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-08-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-11-02	11:05	P	NO REACTION TO STIMULUS
			04-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-12-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74768-11	F	2500 PPM	BEHAVIOR/CNS	04-13-02	10:50	P VOCALIZATION)
				04-14-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-16-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-18-02	11:05	P NO REACTION TO STIMULUS
				04-25-02	11:35	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-26-02	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:16	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:48	P NO REACTION TO STIMULUS
				04-29-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:41	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74768-11	F	2500 PPM	BEHAVIOR/CNS	05-05-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-06-02	11:00	P	NO REACTION TO STIMULUS
				05-07-02	11:05	P	NO REACTION TO STIMULUS
				05-08-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:20	P	NO REACTION TO STIMULUS
				05-11-02	10:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-10-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:10	P	NO REACTION TO STIMULUS
				05-17-02	11:10	P	NO REACTION TO STIMULUS
				05-18-02	10:09	P	NO REACTION TO STIMULUS
				05-19-02	10:12	P	NO REACTION TO STIMULUS
				05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74768-11	F	2500 PPM	BEHAVIOR/CNS	05-29-02	11:15	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-20-02	10:40	P	NO REACTION TO STIMULUS				
				05-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-23-02	11:05	P	NO REACTION TO STIMULUS				
				05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				02-28-02	11:40	P	NO REACTION TO STIMULUS				
				02-24-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				74770-10	F	2500 PPM	BEHAVIOR/CNS	01-06-02	11:55	P	NO REACTION TO STIMULUS
								01-07-02	11:35	P	NO REACTION TO STIMULUS
01-08-02	12:10	P	NO REACTION TO STIMULUS								
01-09-02	11:40	P	NO REACTION TO STIMULUS								
01-10-02	11:50	P	NO REACTION TO STIMULUS								
01-11-02	11:25	P	NO REACTION TO STIMULUS								
01-12-02	13:18	P	NO REACTION TO STIMULUS								
01-13-02	12:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-14-02	11:35	P	NO REACTION TO STIMULUS								
01-15-02	11:05	P	NO REACTION TO STIMULUS								
01-16-02	11:24	P	NO REACTION TO STIMULUS								
01-17-02	11:10	P	NO REACTION TO STIMULUS								
01-18-02	11:00	P	NO REACTION TO STIMULUS								
01-19-02	10:45	P	NO REACTION TO STIMULUS								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2500 of 3891

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74770-10	F	2500 PPM	BEHAVIOR/CNS	01-20-02	11:05	P NO REACTION TO STIMULUS
				01-21-02	11:20	P NO REACTION TO STIMULUS
				01-22-02	11:11	P NO REACTION TO STIMULUS
				01-23-02	11:18	P NO REACTION TO STIMULUS
				01-24-02	11:10	P NO REACTION TO STIMULUS
				01-25-02	11:10	P NO REACTION TO STIMULUS
				01-26-02	10:55	P NO REACTION TO STIMULUS
				01-27-02	10:35	P NO REACTION TO STIMULUS
				01-28-02	11:05	P NO REACTION TO STIMULUS
				01-29-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P NO REACTION TO STIMULUS
				01-31-02	11:10	P NO REACTION TO STIMULUS
				02-01-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:34	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:55	P NO REACTION TO STIMULUS
				02-04-02	11:35	P NO REACTION TO STIMULUS
				02-05-02	11:35	P NO REACTION TO STIMULUS
				02-06-02	11:50	P NO REACTION TO STIMULUS
				02-07-02	11:05	P NO REACTION TO STIMULUS
				02-08-02	11:05	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-09-02	10:34	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:41	P NO REACTION TO STIMULUS
				02-11-02	11:20	P NO REACTION TO STIMULUS
				02-12-02	11:05	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2501 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74770-10	F	2500 PPM	BEHAVIOR/CNS	02-13-02	11:40	P NO REACTION TO STIMULUS
				02-14-02	11:20	P NO REACTION TO STIMULUS
				02-15-02	11:05	P NO REACTION TO STIMULUS
				02-16-02	11:00	P NO REACTION TO STIMULUS
				02-17-02	11:00	P NO REACTION TO STIMULUS
				02-18-02	11:30	P NO REACTION TO STIMULUS
				02-19-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-20-02	11:50	P NO REACTION TO STIMULUS
				02-21-02	11:10	P NO REACTION TO STIMULUS
				02-22-02	11:05	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-25-02	11:15	P NO REACTION TO STIMULUS
				02-26-02	11:40	P NO REACTION TO STIMULUS
				02-27-02	11:35	P NO REACTION TO STIMULUS
				03-01-02	11:15	P NO REACTION TO STIMULUS
				03-02-02	11:33	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:51	P NO REACTION TO STIMULUS
				03-04-02	11:10	P NO REACTION TO STIMULUS
				03-05-02	11:05	P NO REACTION TO STIMULUS
				03-06-02	12:00	P NO REACTION TO STIMULUS
				03-07-02	11:00	P NO REACTION TO STIMULUS
				03-08-02	11:10	P NO REACTION TO STIMULUS
				03-09-02	10:37	P NO REACTION TO STIMULUS
				03-10-02	10:35	P NO REACTION TO STIMULUS
				03-11-02	11:10	P NO REACTION TO STIMULUS
				03-12-02	11:25	P NO REACTION TO STIMULUS
				03-13-02	12:10	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2502 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74770-10	F	2500 PPM	BEHAVIOR/CNS	03-14-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-15-02	10:50	P NO REACTION TO STIMULUS
				03-16-02	11:20	P NO REACTION TO STIMULUS
				03-17-02	11:15	P NO REACTION TO STIMULUS
				03-18-02	11:10	P NO REACTION TO STIMULUS
				03-19-02	11:48	P NO REACTION TO STIMULUS
				03-20-02	11:50	P NO REACTION TO STIMULUS
				03-21-02	11:05	P NO REACTION TO STIMULUS
				03-22-02	11:18	P NO REACTION TO STIMULUS
				03-23-02	11:30	P NO REACTION TO STIMULUS
				03-24-02	11:17	P NO REACTION TO STIMULUS
				03-25-02	11:15	P NO REACTION TO STIMULUS
				03-26-02	11:25	P NO REACTION TO STIMULUS
				03-27-02	11:30	P NO REACTION TO STIMULUS
				03-28-02	11:58	P NO REACTION TO STIMULUS
				03-29-02	12:15	P NO REACTION TO STIMULUS
				03-30-02	12:20	P NO REACTION TO STIMULUS
				03-31-02	11:10	P NO REACTION TO STIMULUS
				04-01-02	12:15	P NO REACTION TO STIMULUS
				04-02-02	11:30	P NO REACTION TO STIMULUS
				04-03-02	11:50	P NO REACTION TO STIMULUS
				04-04-02	11:25	P NO REACTION TO STIMULUS
				04-05-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P NO REACTION TO STIMULUS
				04-07-02	11:20	P NO REACTION TO STIMULUS
				04-08-02	11:20	P NO REACTION TO STIMULUS
				04-09-02	11:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74770-10	F	2500 PPM	BEHAVIOR/CNS	04-11-02	11:05	P NO REACTION TO STIMULUS
				04-10-02	11:50	P NO REACTION TO STIMULUS
				04-12-02	11:05	P NO REACTION TO STIMULUS
				04-13-02	10:50	P NO REACTION TO STIMULUS
				04-14-02	11:19	P NO REACTION TO STIMULUS
				04-15-02	11:20	P NO REACTION TO STIMULUS
				04-16-02	11:20	P NO REACTION TO STIMULUS
				04-17-02	11:35	P NO REACTION TO STIMULUS
				04-18-02	11:05	P NO REACTION TO STIMULUS
				04-19-02	10:55	P NO REACTION TO STIMULUS
				04-25-02	11:35	P NO REACTION TO STIMULUS
				04-26-02	11:18	P NO REACTION TO STIMULUS
				04-27-02	11:16	P NO REACTION TO STIMULUS
				04-28-02	10:48	P NO REACTION TO STIMULUS
				04-29-02	11:00	P NO REACTION TO STIMULUS
				04-30-02	11:15	P NO REACTION TO STIMULUS
				05-01-02	11:30	P NO REACTION TO STIMULUS
				05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P NO REACTION TO STIMULUS
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P NO REACTION TO STIMULUS
				05-07-02	11:05	P NO REACTION TO STIMULUS
				05-08-02	11:25	P NO REACTION TO STIMULUS
				05-09-02	11:20	P NO REACTION TO STIMULUS
				05-11-02	10:20	P NO REACTION TO STIMULUS
				05-10-02	11:05	P NO REACTION TO STIMULUS
				05-12-02	10:20	P NO REACTION TO STIMULUS
				05-13-02	11:35	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2504 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74770-10	F	2500 PPM	BEHAVIOR/CNS	05-14-02	10:55	P	NO REACTION TO STIMULUS				
				05-15-02	11:15	P	NO REACTION TO STIMULUS				
				05-16-02	11:10	P	NO REACTION TO STIMULUS				
				05-17-02	11:10	P	NO REACTION TO STIMULUS				
				05-18-02	10:09	P	NO REACTION TO STIMULUS				
				05-19-02	10:12	P	NO REACTION TO STIMULUS				
				05-25-02	10:45	P	NO REACTION TO STIMULUS				
				05-26-02	10:40	P	NO REACTION TO STIMULUS				
				05-27-02	10:20	P	NO REACTION TO STIMULUS				
				05-29-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-20-02	10:40	P	NO REACTION TO STIMULUS				
				05-21-02	11:15	P	NO REACTION TO STIMULUS				
				05-22-02	11:18	P	NO REACTION TO STIMULUS				
				05-23-02	11:05	P	NO REACTION TO STIMULUS				
				05-24-02	10:53	P	NO REACTION TO STIMULUS				
				05-28-02	12:25	P	NO REACTION TO STIMULUS				
				02-28-02	11:40	P	NO REACTION TO STIMULUS				
				02-24-02	10:37	P	NO REACTION TO STIMULUS				
				74792-11	F	2500 PPM	BEHAVIOR/CNS	01-04-02	11:45	P	NO REACTION TO STIMULUS
								01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
01-06-02	11:55	P	NO REACTION TO STIMULUS								
01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-08-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-09-02	11:40	P	NO REACTION TO STIMULUS								
01-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2505 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792-11	F	2500 PPM	BEHAVIOR/CNS	01-11-02	11:25	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:24	P	NO REACTION TO STIMULUS
				01-17-02	11:10	P	NO REACTION TO STIMULUS
				01-18-02	11:00	P	NO REACTION TO STIMULUS
				01-19-02	10:45	P	NO REACTION TO STIMULUS
				01-20-02	11:05	P	NO REACTION TO STIMULUS
				01-21-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	NO REACTION TO STIMULUS
				01-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	NO REACTION TO STIMULUS
				01-28-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-11	F	2500 PPM	BEHAVIOR/CNS			VOCALIZATION)
			01-31-02	11:10	P	NO REACTION TO STIMULUS
			02-01-02	11:25	P	NO REACTION TO STIMULUS
			02-02-02	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-03-02	10:55	P	NO REACTION TO STIMULUS
			02-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-05-02	11:35	P	NO REACTION TO STIMULUS
			02-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-09-02	10:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-10-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-11-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			02-12-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-13-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-14-02	11:20	P	NO REACTION TO STIMULUS
			02-15-02	11:05	P	NO REACTION TO STIMULUS
			02-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2507 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792-11	F	2500 PPM	BEHAVIOR/CNS	02-18-02	11:30	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-22-02	11:05	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:33	P	NO REACTION TO STIMULUS
				03-03-02	11:51	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	NO REACTION TO STIMULUS
				03-06-02	12:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS
				03-09-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:35	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-11	F	2500 PPM	BEHAVIOR/CNS	03-11-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-12-02	11:25	P NO REACTION TO STIMULUS
				03-13-02	12:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-14-02	10:45	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-15-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-16-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:10	P NO REACTION TO STIMULUS
				03-19-02	11:48	P NO REACTION TO STIMULUS
				03-20-02	11:50	P NO REACTION TO STIMULUS
				03-21-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-22-02	11:18	P NO REACTION TO STIMULUS
				03-23-02	11:30	P NO REACTION TO STIMULUS
				03-24-02	11:17	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-25-02	11:15	P NO REACTION TO STIMULUS
				03-26-02	11:25	P NO REACTION TO STIMULUS
				03-27-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-28-02	11:58	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-29-02	12:15	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-11	F	2500 PPM	BEHAVIOR/CNS	03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:30	P	NO REACTION TO STIMULUS
				04-03-02	11:50	P	NO REACTION TO STIMULUS
				04-04-02	11:25	P	NO REACTION TO STIMULUS
				04-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:15	P	NO REACTION TO STIMULUS
				04-11-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:50	P	NO REACTION TO STIMULUS
				04-12-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-13-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P	NO REACTION TO STIMULUS
				04-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-17-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792-11	F	2500 PPM	BEHAVIOR/CNS	04-18-02	11:05	P	STIMULUS WAS HEARD
				04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P	NO REACTION TO STIMULUS
				04-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:35	P	NO REACTION TO STIMULUS
				04-23-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-24-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-25-02	11:35	P	NO REACTION TO STIMULUS
				04-26-02	11:18	P	NO REACTION TO STIMULUS
				04-27-02	11:16	P	NO REACTION TO STIMULUS
				04-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P	NO REACTION TO STIMULUS
				05-01-02	11:30	P	NO REACTION TO STIMULUS
				05-02-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2511 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792-11	F	2500 PPM	BEHAVIOR/CNS	05-07-02	11:05	P	STIMULUS WAS HEARD
				05-08-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				05-09-02	11:20	P	STIMULUS WAS HEARD
				05-11-02	10:20	P	NO REACTION TO STIMULUS
				05-10-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				05-12-02	10:20	P	STIMULUS WAS HEARD
				05-13-02	11:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				05-14-02	10:55	P	VOCALIZATION)
				05-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				05-16-02	11:10	P	STIMULUS WAS HEARD
				05-17-02	11:10	P	NO REACTION TO STIMULUS
				05-18-02	10:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				05-19-02	10:12	P	STIMULUS WAS HEARD
				05-25-02	10:45	P	NO REACTION TO STIMULUS
				05-26-02	10:40	P	NO REACTION TO STIMULUS
				05-27-02	10:20	P	NO REACTION TO STIMULUS
				05-20-02	10:40	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE
				05-21-02	11:15	P	VOCALIZATION)
				05-22-02	11:18	P	NO REACTION TO STIMULUS
				05-23-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74792-11	F	2500 PPM	BEHAVIOR/CNS	05-24-02	10:53	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-28-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-24-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74792-12	F	2500 PPM	BEHAVIOR/CNS	01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	NO REACTION TO STIMULUS
				01-17-02	11:10	P	NO REACTION TO STIMULUS
				01-18-02	11:00	P	NO REACTION TO STIMULUS
				01-19-02	10:45	P	NO REACTION TO STIMULUS
				01-20-02	11:05	P	NO REACTION TO STIMULUS
01-21-02	11:20	P	NO REACTION TO STIMULUS				
01-22-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
01-23-02	11:18	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2513 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-12	F	2500 PPM	BEHAVIOR/CNS	01-24-02	11:10	P	NO REACTION TO STIMULUS
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	NO REACTION TO STIMULUS
				01-27-02	10:35	P	NO REACTION TO STIMULUS
				01-28-02	11:05	P	NO REACTION TO STIMULUS
				01-29-02	11:05	P	NO REACTION TO STIMULUS
				01-30-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P	NO REACTION TO STIMULUS
				02-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:55	P	NO REACTION TO STIMULUS
				02-04-02	11:35	P	NO REACTION TO STIMULUS
				02-05-02	11:35	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	NO REACTION TO STIMULUS
				02-07-02	11:05	P	NO REACTION TO STIMULUS
				02-08-02	11:05	P	NO REACTION TO STIMULUS
				02-09-02	10:34	P	NO REACTION TO STIMULUS
				02-10-02	10:41	P	NO REACTION TO STIMULUS
				02-11-02	11:20	P	NO REACTION TO STIMULUS
				02-12-02	11:05	P	NO REACTION TO STIMULUS
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	NO REACTION TO STIMULUS
				02-17-02	11:00	P	NO REACTION TO STIMULUS
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-12	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			02-19-02	11:05	P	NO REACTION TO STIMULUS
			02-20-02	11:50	P	NO REACTION TO STIMULUS
			02-21-02	11:10	P	NO REACTION TO STIMULUS
			02-22-02	11:05	P	NO REACTION TO STIMULUS
			02-23-02	10:51	P	NO REACTION TO STIMULUS
			02-25-02	11:15	P	NO REACTION TO STIMULUS
			02-26-02	11:40	P	NO REACTION TO STIMULUS
			02-27-02	11:35	P	NO REACTION TO STIMULUS
			03-01-02	11:15	P	NO REACTION TO STIMULUS
			03-02-02	11:33	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-03-02	11:51	P	NO REACTION TO STIMULUS
			03-04-02	11:10	P	NO REACTION TO STIMULUS
			03-05-02	11:05	P	NO REACTION TO STIMULUS
			03-06-02	12:00	P	NO REACTION TO STIMULUS
			03-07-02	11:00	P	NO REACTION TO STIMULUS
			03-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-09-02	10:37	P	NO REACTION TO STIMULUS
			03-10-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-11-02	11:10	P	NO REACTION TO STIMULUS
			03-12-02	11:25	P	NO REACTION TO STIMULUS
			03-13-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-14-02	10:45	P	NO REACTION TO STIMULUS
			03-15-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-16-02	11:20	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-12	F	2500 PPM	BEHAVIOR/CNS	03-17-02	11:15	P	NO REACTION TO STIMULUS
				03-18-02	11:10	P	NO REACTION TO STIMULUS
				03-19-02	11:48	P	NO REACTION TO STIMULUS
				03-20-02	11:50	P	NO REACTION TO STIMULUS
				03-21-02	11:05	P	NO REACTION TO STIMULUS
				03-22-02	11:18	P	NO REACTION TO STIMULUS
				03-23-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P	NO REACTION TO STIMULUS
				03-25-02	11:15	P	NO REACTION TO STIMULUS
				03-26-02	11:25	P	NO REACTION TO STIMULUS
				03-27-02	11:30	P	NO REACTION TO STIMULUS
				03-28-02	11:58	P	NO REACTION TO STIMULUS
				03-29-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	NO REACTION TO STIMULUS
				04-01-02	12:15	P	NO REACTION TO STIMULUS
				04-02-02	11:30	P	NO REACTION TO STIMULUS
				04-03-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:25	P	NO REACTION TO STIMULUS
				04-05-02	11:30	P	NO REACTION TO STIMULUS
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	NO REACTION TO STIMULUS
				04-08-02	11:20	P	NO REACTION TO STIMULUS
				04-09-02	11:15	P	NO REACTION TO STIMULUS
				04-11-02	11:05	P	NO REACTION TO STIMULUS
				04-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74792-12	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			04-12-02	11:05	P	NO REACTION TO STIMULUS
			04-13-02	10:50	P	NO REACTION TO STIMULUS
			04-14-02	11:19	P	NO REACTION TO STIMULUS
			04-15-02	11:20	P	NO REACTION TO STIMULUS
			04-16-02	11:20	P	NO REACTION TO STIMULUS
			04-17-02	11:35	P	NO REACTION TO STIMULUS
			04-18-02	11:05	P	NO REACTION TO STIMULUS
			04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-28-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-29-02	11:00	P	NO REACTION TO STIMULUS
			04-30-02	11:15	P	NO REACTION TO STIMULUS
			05-01-02	11:30	P	NO REACTION TO STIMULUS
			05-02-02	11:10	P	NO REACTION TO STIMULUS
			05-03-02	11:05	P	NO REACTION TO STIMULUS
			05-04-02	10:41	P	NO REACTION TO STIMULUS
			05-05-02	10:35	P	NO REACTION TO STIMULUS
			05-06-02	11:00	P	NO REACTION TO STIMULUS
			05-07-02	11:05	P	NO REACTION TO STIMULUS
			05-08-02	11:25	P	NO REACTION TO STIMULUS
			05-09-02	11:20	P	NO REACTION TO STIMULUS
			05-11-02	10:20	P	NO REACTION TO STIMULUS
			05-10-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-12-02	10:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2517 of 3891

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS					
74792-12	F	2500 PPM	BEHAVIOR/CNS	05-14-02	10:55	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS				
				05-15-02	11:15	P	NO REACTION TO STIMULUS				
				05-16-02	11:10	P	NO REACTION TO STIMULUS				
				05-17-02	11:10	P	NO REACTION TO STIMULUS				
				05-18-02	10:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD				
				05-19-02	10:12	P	NO REACTION TO STIMULUS				
				05-25-02	10:45	P	NO REACTION TO STIMULUS				
				05-26-02	10:40	P	NO REACTION TO STIMULUS				
				05-27-02	10:20	P	NO REACTION TO STIMULUS				
				05-28-02	12:25	P	NO REACTION TO STIMULUS				
				05-29-02	11:15	P	NO REACTION TO STIMULUS				
				05-20-02	10:40	P	NO REACTION TO STIMULUS				
				05-21-02	11:15	P	NO REACTION TO STIMULUS				
				05-22-02	11:18	P	NO REACTION TO STIMULUS				
				05-23-02	11:05	P	NO REACTION TO STIMULUS				
				05-24-02	10:53	P	NO REACTION TO STIMULUS				
				02-28-02	11:40	P	NO REACTION TO STIMULUS				
				74817-13	F	2500 PPM	BEHAVIOR/CNS	04-20-02	10:50	P	NO REACTION TO STIMULUS
								02-24-02	10:37	P	NO REACTION TO STIMULUS
								01-06-02	11:55	P	NO REACTION TO STIMULUS
01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD								
01-08-02	12:10	P	NO REACTION TO STIMULUS								
01-09-02	11:40	P	NO REACTION TO STIMULUS								
01-10-02	11:50	P	NO REACTION TO STIMULUS								
01-11-02	11:25	P	NO REACTION TO STIMULUS								
01-12-02	13:18	P	NO REACTION TO STIMULUS								

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74817-13	F	2500 PPM	BEHAVIOR/CNS	01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:45	P	NO REACTION TO STIMULUS
				01-20-02	11:05	P	NO REACTION TO STIMULUS
				01-21-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:11	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-28-02	11:05	P	NO REACTION TO STIMULUS
				01-29-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74817-13	F	2500 PPM	BEHAVIOR/CNS	01-31-02	11:10	P	STIMULUS WAS HEARD
				02-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-02-02	11:34	P	STIMULUS WAS HEARD
				02-02-02	11:34	P	NO REACTION TO STIMULUS
				02-03-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-03-02	10:55	P	STIMULUS WAS HEARD
				02-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-04-02	11:35	P	STIMULUS WAS HEARD
				02-05-02	11:35	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-06-02	11:50	P	STIMULUS WAS HEARD
				02-07-02	11:05	P	NO REACTION TO STIMULUS
				02-08-02	11:05	P	NO REACTION TO STIMULUS
				02-09-02	10:34	P	NO REACTION TO STIMULUS
				02-10-02	10:41	P	NO REACTION TO STIMULUS
				02-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-11-02	11:20	P	STIMULUS WAS HEARD
				02-12-02	11:05	P	NO REACTION TO STIMULUS
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	NO REACTION TO STIMULUS
				02-17-02	11:00	P	NO REACTION TO STIMULUS
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT
				02-18-02	11:30	P	STIMULUS WAS HEARD
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	NO REACTION TO STIMULUS
				02-21-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS			
74817-13	F	BEHAVIOR/CNS	02-22-02	11:05	P	STIMULUS WAS HEARD			
						02-23-02	10:51	P	NO REACTION TO STIMULUS
									SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
						02-25-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
									NO REACTION TO STIMULUS
						02-26-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
									NO REACTION TO STIMULUS
						02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
									NO REACTION TO STIMULUS
						03-01-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
									NO REACTION TO STIMULUS
						03-02-02	11:33	P	NO REACTION TO STIMULUS
									MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						03-03-02	11:51	P	NO REACTION TO STIMULUS
									MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						03-04-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
NO REACTION TO STIMULUS									
03-05-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)						
03-06-02	12:00	P	NO REACTION TO STIMULUS						
			SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
03-07-02	11:00	P	NO REACTION TO STIMULUS						
			NO REACTION TO STIMULUS						
03-08-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-09-02	10:37	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-10-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-11-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-12-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-13-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD						
			NO REACTION TO STIMULUS						
03-14-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT						
			NO REACTION TO STIMULUS						

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74817-13	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-15-02	10:50	P	NO REACTION TO STIMULUS
			03-16-02	11:20	P	NO REACTION TO STIMULUS
			03-17-02	11:15	P	NO REACTION TO STIMULUS
			03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-19-02	11:48	P	NO REACTION TO STIMULUS
			03-20-02	11:50	P	NO REACTION TO STIMULUS
			03-21-02	11:05	P	NO REACTION TO STIMULUS
			03-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-23-02	11:30	P	NO REACTION TO STIMULUS
			03-24-02	11:17	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			03-25-02	11:15	P	NO REACTION TO STIMULUS
			03-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-27-02	11:30	P	NO REACTION TO STIMULUS
			03-28-02	11:58	P	NO REACTION TO STIMULUS
			03-29-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-30-02	12:20	P	NO REACTION TO STIMULUS
			03-31-02	11:10	P	NO REACTION TO STIMULUS
			04-01-02	12:15	P	NO REACTION TO STIMULUS
			04-02-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-03-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-04-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74817-13	F	2500 PPM	BEHAVIOR/CNS	04-05-02	11:30	P	NO REACTION TO STIMULUS
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	NO REACTION TO STIMULUS
				04-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-11-02	11:05	P	NO REACTION TO STIMULUS
				04-10-02	11:50	P	NO REACTION TO STIMULUS
				04-12-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-15-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	NO REACTION TO STIMULUS
				04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P	NO REACTION TO STIMULUS
				04-28-02	10:48	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74817-13	F	2500 PPM	BEHAVIOR/CNS	05-02-02	11:10	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-04-02	10:41	P	NO REACTION TO STIMULUS
				05-05-02	10:35	P	NO REACTION TO STIMULUS
				05-06-02	11:00	P	NO REACTION TO STIMULUS
				05-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:25	P	NO REACTION TO STIMULUS
				05-09-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-11-02	10:20	P	NO REACTION TO STIMULUS
				05-10-02	11:05	P	NO REACTION TO STIMULUS
				05-12-02	10:20	P	NO REACTION TO STIMULUS
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-15-02	11:15	P	NO REACTION TO STIMULUS
				05-16-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-18-02	10:09	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-19-02	10:12	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74817-13	F	2500 PPM	BEHAVIOR/CNS	05-26-02	10:40	P	STIMULUS WAS HEARD
				05-27-02	10:20	P	NO REACTION TO STIMULUS
						P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-21-02	11:15	P	NO REACTION TO STIMULUS
				05-22-02	11:18	P	NO REACTION TO STIMULUS
				05-23-02	11:05	P	NO REACTION TO STIMULUS
				05-24-02	10:53	P	NO REACTION TO STIMULUS
				02-28-02	11:40	P	NO REACTION TO STIMULUS
				02-24-02	10:37	P	NO REACTION TO STIMULUS
74832-07	F	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P	NO REACTION TO STIMULUS
				01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

2525 of 3891

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74832-07	F	2500 PPM	BEHAVIOR/CNS	01-16-02	11:24	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				01-17-02	11:10	P	NO REACTION TO STIMULUS
				01-18-02	11:00	P	NO REACTION TO STIMULUS
				01-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-20-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-21-02	11:20	P	NO REACTION TO STIMULUS
				01-22-02	11:11	P	NO REACTION TO STIMULUS
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-29-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-31-02	11:10	P	NO REACTION TO STIMULUS
				02-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:55	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74832-07	F	2500 PPM	BEHAVIOR/CNS	02-04-02	11:35	P	NO REACTION TO STIMULUS
				02-05-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:50	P	NO REACTION TO STIMULUS
				02-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-09-02	10:34	P	NO REACTION TO STIMULUS
				02-10-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:05	P	NO REACTION TO STIMULUS
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-17-02	11:00	P	NO REACTION TO STIMULUS
				02-18-02	11:30	P	NO REACTION TO STIMULUS
				02-19-02	11:05	P	NO REACTION TO STIMULUS
				02-20-02	11:50	P	NO REACTION TO STIMULUS
				02-21-02	11:10	P	NO REACTION TO STIMULUS
				02-22-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832-07	F	2500 PPM	BEHAVIOR/CNS	02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	NO REACTION TO STIMULUS
				03-02-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:51	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	12:00	P	NO REACTION TO STIMULUS
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS
				03-09-02	10:37	P	NO REACTION TO STIMULUS
				03-10-02	10:35	P	NO REACTION TO STIMULUS
				03-11-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-12-02	11:25	P	NO REACTION TO STIMULUS
				03-13-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:45	P	NO REACTION TO STIMULUS
				03-15-02	10:50	P	NO REACTION TO STIMULUS
				03-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-17-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-18-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-19-02	11:48	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74832-07	F	2500 PPM	BEHAVIOR/CNS	03-20-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-21-02	11:05	P	NO REACTION TO STIMULUS
				03-22-02	11:18	P	NO REACTION TO STIMULUS
				03-23-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-24-02	11:17	P	NO REACTION TO STIMULUS
				03-25-02	11:15	P	NO REACTION TO STIMULUS
				03-26-02	11:25	P	NO REACTION TO STIMULUS
				03-27-02	11:30	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-28-02	11:58	P	NO REACTION TO STIMULUS
				03-29-02	12:15	P	NO REACTION TO STIMULUS
				03-30-02	12:20	P	NO REACTION TO STIMULUS
				03-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-01-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:30	P	NO REACTION TO STIMULUS
				04-03-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:25	P	NO REACTION TO STIMULUS
				04-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	NO REACTION TO STIMULUS
				04-08-02	11:20	P	NO REACTION TO STIMULUS
				04-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832-07	F	2500 PPM	BEHAVIOR/CNS	04-10-02	11:50	P	NO REACTION TO STIMULUS
				04-12-02	11:05	P	NO REACTION TO STIMULUS
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P	NO REACTION TO STIMULUS
				04-16-02	11:20	P	NO REACTION TO STIMULUS
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	NO REACTION TO STIMULUS
				04-19-02	10:55	P	NO REACTION TO STIMULUS
				04-20-02	10:50	P	NO REACTION TO STIMULUS
				04-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-22-02	11:35	P	NO REACTION TO STIMULUS
				04-23-02	11:20	P	NO REACTION TO STIMULUS
				04-24-02	11:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P	NO REACTION TO STIMULUS
				05-01-02	11:30	P	NO REACTION TO STIMULUS
				05-02-02	11:10	P	NO REACTION TO STIMULUS
				05-03-02	11:05	P	NO REACTION TO STIMULUS
				05-04-02	10:41	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-05-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-06-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	11:05	P	NO REACTION TO STIMULUS
				05-08-02	11:25	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74832-07	F	2500 PPM	BEHAVIOR/CNS	05-09-02	11:20	P	NO REACTION TO STIMULUS
				05-11-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	11:05	P	NO REACTION TO STIMULUS
				05-12-02	10:20	P	NO REACTION TO STIMULUS
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P	NO REACTION TO STIMULUS
				05-15-02	11:15	P	NO REACTION TO STIMULUS
				05-16-02	11:10	P	NO REACTION TO STIMULUS
				05-17-02	11:10	P	NO REACTION TO STIMULUS
				05-18-02	10:09	P	NO REACTION TO STIMULUS
				05-19-02	10:12	P	NO REACTION TO STIMULUS
				05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:40	P	NO REACTION TO STIMULUS
				05-27-02	10:20	P	NO REACTION TO STIMULUS
				05-28-02	12:25	P	NO REACTION TO STIMULUS
				05-20-02	10:40	P	NO REACTION TO STIMULUS
				05-21-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-22-02	11:18	P	NO REACTION TO STIMULUS
				05-23-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:40	P	NO REACTION TO STIMULUS
				02-24-02	10:37	P	NO REACTION TO STIMULUS
74836-11	F	2500 PPM	BEHAVIOR/CNS	01-02-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74836-11	F	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P	STIMULUS WAS HEARD SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-04-02	11:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-05-02	12:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-11-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:24	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-17-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74836-11	F	2500 PPM	BEHAVIOR/CNS	01-20-02	11:05	P	STIMULUS WAS HEARD
				01-21-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:11	P	NO REACTION TO STIMULUS
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-28-02	11:05	P	NO REACTION TO STIMULUS
				01-29-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-30-02	11:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-01-02	11:25	P	NO REACTION TO STIMULUS
				02-02-02	11:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-03-02	10:55	P	NO REACTION TO STIMULUS
				02-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-05-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-06-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74836-11	F	2500 PPM	BEHAVIOR/CNS	02-07-02	11:05	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-08-02	11:05	P NO REACTION TO STIMULUS
				02-09-02	10:34	P NO REACTION TO STIMULUS
				02-10-02	10:41	P NO REACTION TO STIMULUS
				02-11-02	11:20	P NO REACTION TO STIMULUS
				02-12-02	11:05	P NO REACTION TO STIMULUS
				02-13-02	11:40	P NO REACTION TO STIMULUS
				02-14-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-15-02	11:05	P NO REACTION TO STIMULUS
				02-16-02	11:00	P NO REACTION TO STIMULUS
				02-17-02	11:00	P NO REACTION TO STIMULUS
				02-18-02	11:30	P NO REACTION TO STIMULUS
				02-19-02	11:05	P NO REACTION TO STIMULUS
				02-20-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P NO REACTION TO STIMULUS
				02-22-02	11:05	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-25-02	11:15	P NO REACTION TO STIMULUS
				02-26-02	11:40	P NO REACTION TO STIMULUS
				02-27-02	11:35	P NO REACTION TO STIMULUS
				03-01-02	11:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-02-02	11:33	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-03-02	11:51	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74836-11	F	2500 PPM	BEHAVIOR/CNS	03-04-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-05-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	12:00	P NO REACTION TO STIMULUS
				03-07-02	11:00	P NO REACTION TO STIMULUS
				03-08-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-09-02	10:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:10	P NO REACTION TO STIMULUS
				03-12-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-13-02	12:10	P NO REACTION TO STIMULUS
				03-14-02	10:45	P NO REACTION TO STIMULUS
				03-15-02	10:50	P NO REACTION TO STIMULUS
				03-16-02	11:20	P NO REACTION TO STIMULUS
				03-17-02	11:15	P NO REACTION TO STIMULUS
				03-18-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-19-02	11:48	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-20-02	11:50	P NO REACTION TO STIMULUS
				03-21-02	11:05	P NO REACTION TO STIMULUS
				03-22-02	11:18	P NO REACTION TO STIMULUS
				03-23-02	11:30	P NO REACTION TO STIMULUS
				03-24-02	11:17	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74836-11	F	2500 PPM	BEHAVIOR/CNS	03-25-02	11:15	P NO REACTION TO STIMULUS
				03-26-02	11:25	P NO REACTION TO STIMULUS
				03-27-02	11:30	P NO REACTION TO STIMULUS
				03-28-02	11:58	P NO REACTION TO STIMULUS
				03-29-02	12:15	P NO REACTION TO STIMULUS
				03-30-02	12:20	P NO REACTION TO STIMULUS
				03-31-02	11:10	P NO REACTION TO STIMULUS
				04-01-02	12:15	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-02-02	11:30	P NO REACTION TO STIMULUS
				04-03-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:25	P NO REACTION TO STIMULUS
				04-05-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P NO REACTION TO STIMULUS
				04-07-02	11:20	P NO REACTION TO STIMULUS
				04-08-02	11:20	P NO REACTION TO STIMULUS
				04-09-02	11:15	P NO REACTION TO STIMULUS
				04-11-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-10-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-12-02	11:05	P NO REACTION TO STIMULUS
				04-13-02	10:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-14-02	11:19	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74836-11	F	2500 PPM	BEHAVIOR/CNS	04-16-02	11:20	P	STIMULUS WAS HEARD
				04-17-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-18-02	11:05	P	NO REACTION TO STIMULUS
				04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-21-02	10:50	P	NO REACTION TO STIMULUS
				04-28-02	10:48	P	NO REACTION TO STIMULUS
				04-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P	NO REACTION TO STIMULUS
				05-01-02	11:30	P	NO REACTION TO STIMULUS
				05-02-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-03-02	11:05	P	NO REACTION TO STIMULUS
				05-04-02	10:41	P	NO REACTION TO STIMULUS
				05-05-02	10:35	P	NO REACTION TO STIMULUS
				05-06-02	11:00	P	NO REACTION TO STIMULUS
				05-07-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:20	P	NO REACTION TO STIMULUS
				05-11-02	10:20	P	NO REACTION TO STIMULUS
				05-10-02	11:05	P	NO REACTION TO STIMULUS
				05-12-02	10:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74836-11	F	2500 PPM	BEHAVIOR/CNS	05-13-02	11:35	P VOCALIZATION) SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P NO REACTION TO STIMULUS
				05-15-02	11:15	P NO REACTION TO STIMULUS
				05-16-02	11:10	P NO REACTION TO STIMULUS
				05-17-02	11:10	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-18-02	10:09	P NO REACTION TO STIMULUS
				05-19-02	10:12	P NO REACTION TO STIMULUS
				05-25-02	10:45	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:40	P NO REACTION TO STIMULUS
				05-27-02	10:20	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:25	P NO REACTION TO STIMULUS
				05-29-02	11:15	P NO REACTION TO STIMULUS
				05-30-02	11:19	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-20-02	10:40	P NO REACTION TO STIMULUS
				05-21-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-22-02	11:18	P NO REACTION TO STIMULUS
				05-23-02	11:05	P NO REACTION TO STIMULUS
				05-24-02	10:53	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				02-28-02	11:40	P NO REACTION TO STIMULUS
				02-24-02	10:37	P NO REACTION TO STIMULUS
74853-11	F	2500 PPM	BEHAVIOR/CNS	01-03-02	11:25	P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-11	F	2500 PPM	BEHAVIOR/CNS	01-04-02	11:45	P	NO REACTION TO STIMULUS
				01-05-02	12:20	P	NO REACTION TO STIMULUS
				01-06-02	11:55	P	NO REACTION TO STIMULUS
				01-07-02	11:35	P	NO REACTION TO STIMULUS
				01-08-02	12:10	P	NO REACTION TO STIMULUS
				01-09-02	11:40	P	NO REACTION TO STIMULUS
				01-10-02	11:50	P	NO REACTION TO STIMULUS
				01-11-02	11:25	P	NO REACTION TO STIMULUS
				01-12-02	13:18	P	NO REACTION TO STIMULUS
				01-13-02	12:26	P	NO REACTION TO STIMULUS
				01-14-02	11:35	P	NO REACTION TO STIMULUS
				01-15-02	11:05	P	NO REACTION TO STIMULUS
				01-16-02	11:24	P	NO REACTION TO STIMULUS
				01-17-02	11:10	P	NO REACTION TO STIMULUS
				01-18-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:45	P	NO REACTION TO STIMULUS
				01-20-02	11:05	P	NO REACTION TO STIMULUS
				01-21-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-22-02	11:11	P	NO REACTION TO STIMULUS
				01-23-02	11:18	P	NO REACTION TO STIMULUS
				01-24-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-25-02	11:10	P	NO REACTION TO STIMULUS
				01-26-02	10:55	P	NO REACTION TO STIMULUS
				01-27-02	10:35	P	NO REACTION TO STIMULUS
				01-28-02	11:05	P	NO REACTION TO STIMULUS
				01-29-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74853-11	F	2500 PPM	BEHAVIOR/CNS	01-30-02	11:20	P	STIMULUS WAS HEARD
				01-31-02	11:10	P	NO REACTION TO STIMULUS
				02-01-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-02-02	11:34	P	NO REACTION TO STIMULUS
				02-03-02	10:55	P	NO REACTION TO STIMULUS
				02-04-02	11:35	P	NO REACTION TO STIMULUS
				02-05-02	11:35	P	NO REACTION TO STIMULUS
				02-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-07-02	11:05	P	NO REACTION TO STIMULUS
				02-08-02	11:05	P	NO REACTION TO STIMULUS
				02-09-02	10:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-10-02	10:41	P	NO REACTION TO STIMULUS
				02-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-12-02	11:05	P	NO REACTION TO STIMULUS
				02-13-02	11:40	P	NO REACTION TO STIMULUS
				02-14-02	11:20	P	NO REACTION TO STIMULUS
				02-15-02	11:05	P	NO REACTION TO STIMULUS
				02-16-02	11:00	P	NO REACTION TO STIMULUS
				02-17-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
02-19-02	11:05	P	NO REACTION TO STIMULUS				
02-20-02	11:50	P	NO REACTION TO STIMULUS				

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-11	F	2500 PPM	BEHAVIOR/CNS	02-21-02	11:10	P	NO REACTION TO STIMULUS
				02-22-02	11:05	P	NO REACTION TO STIMULUS
				02-23-02	10:51	P	NO REACTION TO STIMULUS
				02-25-02	11:15	P	NO REACTION TO STIMULUS
				02-26-02	11:40	P	NO REACTION TO STIMULUS
				02-27-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P	NO REACTION TO STIMULUS
				03-02-02	11:33	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:51	P	NO REACTION TO STIMULUS
				03-04-02	11:10	P	NO REACTION TO STIMULUS
				03-05-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-06-02	12:00	P	NO REACTION TO STIMULUS
				03-07-02	11:00	P	NO REACTION TO STIMULUS
				03-08-02	11:10	P	NO REACTION TO STIMULUS
				03-09-02	10:37	P	NO REACTION TO STIMULUS
				03-10-02	10:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:10	P	NO REACTION TO STIMULUS
				03-12-02	11:25	P	NO REACTION TO STIMULUS
				03-13-02	12:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-14-02	10:45	P	NO REACTION TO STIMULUS
				03-15-02	10:50	P	NO REACTION TO STIMULUS
				03-16-02	11:20	P	NO REACTION TO STIMULUS
				03-17-02	11:15	P	NO REACTION TO STIMULUS
				03-18-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-11	F	2500 PPM	BEHAVIOR/CNS			VOCALIZATION)
			03-19-02	11:48	P	NO REACTION TO STIMULUS
			03-20-02	11:50	P	NO REACTION TO STIMULUS
			03-21-02	11:05	P	NO REACTION TO STIMULUS
			03-22-02	11:18	P	NO REACTION TO STIMULUS
			03-23-02	11:30	P	NO REACTION TO STIMULUS
			03-24-02	11:17	P	NO REACTION TO STIMULUS
			03-25-02	11:15	P	NO REACTION TO STIMULUS
			03-26-02	11:25	P	NO REACTION TO STIMULUS
			03-27-02	11:30	P	NO REACTION TO STIMULUS
			03-28-02	11:58	P	NO REACTION TO STIMULUS
			03-29-02	12:15	P	NO REACTION TO STIMULUS
			03-30-02	12:20	P	NO REACTION TO STIMULUS
			03-31-02	11:10	P	NO REACTION TO STIMULUS
			04-01-02	12:15	P	NO REACTION TO STIMULUS
			04-02-02	11:30	P	NO REACTION TO STIMULUS
			04-03-02	11:50	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
			04-04-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-06-02	11:19	P	NO REACTION TO STIMULUS
			04-07-02	11:20	P	NO REACTION TO STIMULUS
			04-08-02	11:20	P	NO REACTION TO STIMULUS
			04-09-02	11:15	P	NO REACTION TO STIMULUS
			04-11-02	11:05	P	NO REACTION TO STIMULUS
			04-10-02	11:50	P	NO REACTION TO STIMULUS
			04-12-02	11:05	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-11	F	2500 PPM	BEHAVIOR/CNS	04-13-02	10:50	P NO REACTION TO STIMULUS
				04-14-02	11:19	P NO REACTION TO STIMULUS
				04-15-02	11:20	P NO REACTION TO STIMULUS
				04-16-02	11:20	P NO REACTION TO STIMULUS
				04-17-02	11:35	P NO REACTION TO STIMULUS
				04-18-02	11:05	P NO REACTION TO STIMULUS
				04-25-02	11:35	P NO REACTION TO STIMULUS
				04-26-02	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-27-02	11:16	P NO REACTION TO STIMULUS
				04-28-02	10:48	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:00	P NO REACTION TO STIMULUS
				04-30-02	11:15	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-01-02	11:30	P NO REACTION TO STIMULUS
				05-02-02	11:10	P NO REACTION TO STIMULUS
				05-03-02	11:05	P NO REACTION TO STIMULUS
				05-04-02	10:41	P NO REACTION TO STIMULUS
				05-05-02	10:35	P NO REACTION TO STIMULUS
				05-06-02	11:00	P NO REACTION TO STIMULUS
				05-07-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-08-02	11:25	P NO REACTION TO STIMULUS
				05-09-02	11:20	P NO REACTION TO STIMULUS
				05-11-02	10:20	P NO REACTION TO STIMULUS
				05-10-02	11:05	P NO REACTION TO STIMULUS
				05-12-02	10:20	P NO REACTION TO STIMULUS
				05-13-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 196

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-11	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			05-14-02	10:55	P	NO REACTION TO STIMULUS
			05-15-02	11:15	P	NO REACTION TO STIMULUS
			05-16-02	11:10	P	NO REACTION TO STIMULUS
			05-17-02	11:10	P	NO REACTION TO STIMULUS
			05-18-02	10:09	P	NO REACTION TO STIMULUS
			05-19-02	10:12	P	NO REACTION TO STIMULUS
			05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-26-02	10:40	P	NO REACTION TO STIMULUS
			05-27-02	10:20	P	NO REACTION TO STIMULUS
			05-28-02	12:25	P	NO REACTION TO STIMULUS
			05-29-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			05-30-02	11:19	P	NO REACTION TO STIMULUS
			05-20-02	10:40	P	NO REACTION TO STIMULUS
			05-21-02	11:15	P	NO REACTION TO STIMULUS
			05-22-02	11:18	P	NO REACTION TO STIMULUS
			05-23-02	11:05	P	NO REACTION TO STIMULUS
			05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-28-02	11:40	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
74853-12	F	2500 PPM	BEHAVIOR/CNS			02-24-02 10:37 P NO REACTION TO STIMULUS
						01-03-02 11:25 P NO REACTION TO STIMULUS
						01-04-02 11:45 P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
						01-05-02 12:20 P NO REACTION TO STIMULUS
						01-06-02 11:55 P NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS	01-07-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-08-02	12:10	P NO REACTION TO STIMULUS
				01-09-02	11:40	P NO REACTION TO STIMULUS
				01-10-02	11:50	P NO REACTION TO STIMULUS
				01-11-02	11:25	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-12-02	13:18	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-13-02	12:26	P NO REACTION TO STIMULUS
				01-14-02	11:35	P NO REACTION TO STIMULUS
				01-15-02	11:05	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-16-02	11:24	P NO REACTION TO STIMULUS
				01-17-02	11:10	P NO REACTION TO STIMULUS
				01-18-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-19-02	10:45	P NO REACTION TO STIMULUS
				01-20-02	11:05	P NO REACTION TO STIMULUS
				01-21-02	11:20	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				01-22-02	11:11	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-23-02	11:18	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-24-02	11:10	P NO REACTION TO STIMULUS
				01-25-02	11:10	P NO REACTION TO STIMULUS
				01-26-02	10:55	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				01-27-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			01-28-02	11:05	P	NO REACTION TO STIMULUS
			01-29-02	11:05	P	NO REACTION TO STIMULUS
			01-30-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			01-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-01-02	11:25	P	NO REACTION TO STIMULUS
			02-02-02	11:34	P	NO REACTION TO STIMULUS
			02-03-02	10:55	P	NO REACTION TO STIMULUS
			02-04-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-05-02	11:35	P	NO REACTION TO STIMULUS
			02-06-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-07-02	11:05	P	NO REACTION TO STIMULUS
			02-08-02	11:05	P	NO REACTION TO STIMULUS
			02-09-02	10:34	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-10-02	10:41	P	NO REACTION TO STIMULUS
			02-11-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-12-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-13-02	11:40	P	NO REACTION TO STIMULUS
			02-14-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			02-15-02	11:05	P	NO REACTION TO STIMULUS
			02-16-02	11:00	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS	02-17-02	11:00	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-18-02	11:30	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-19-02	11:05	P NO REACTION TO STIMULUS
				02-20-02	11:50	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-21-02	11:10	P NO REACTION TO STIMULUS
				02-22-02	11:05	P NO REACTION TO STIMULUS
				02-23-02	10:51	P NO REACTION TO STIMULUS
				02-25-02	11:15	P NO REACTION TO STIMULUS
				02-26-02	11:40	P NO REACTION TO STIMULUS
				02-27-02	11:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-01-02	11:15	P NO REACTION TO STIMULUS
				03-02-02	11:33	P MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				03-03-02	11:51	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-04-02	11:10	P NO REACTION TO STIMULUS
				03-05-02	11:05	P NO REACTION TO STIMULUS
				03-06-02	12:00	P NO REACTION TO STIMULUS
				03-07-02	11:00	P NO REACTION TO STIMULUS
				03-08-02	11:10	P NO REACTION TO STIMULUS
				03-09-02	10:37	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-10-02	10:35	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				03-11-02	11:10	P SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS			STIMULUS WAS HEARD
			03-12-02	11:25	P	NO REACTION TO STIMULUS
			03-13-02	12:10	P	NO REACTION TO STIMULUS
			03-14-02	10:45	P	NO REACTION TO STIMULUS
			03-15-02	10:50	P	NO REACTION TO STIMULUS
			03-16-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-17-02	11:15	P	NO REACTION TO STIMULUS
			03-18-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-19-02	11:48	P	NO REACTION TO STIMULUS
			03-20-02	11:50	P	NO REACTION TO STIMULUS
			03-21-02	11:05	P	NO REACTION TO STIMULUS
			03-22-02	11:18	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-23-02	11:30	P	NO REACTION TO STIMULUS
			03-24-02	11:17	P	NO REACTION TO STIMULUS
			03-25-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-26-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-27-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			03-28-02	11:58	P	NO REACTION TO STIMULUS
			03-29-02	12:15	P	NO REACTION TO STIMULUS
			03-30-02	12:20	P	NO REACTION TO STIMULUS
			03-31-02	11:10	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
			04-01-02	12:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS	
74853-12	F	2500 PPM	BEHAVIOR/CNS	04-02-02	11:30	P	STIMULUS WAS HEARD NO REACTION TO STIMULUS
				04-03-02	11:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-04-02	11:25	P	NO REACTION TO STIMULUS
				04-05-02	11:30	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-06-02	11:19	P	NO REACTION TO STIMULUS
				04-07-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-08-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-09-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-11-02	11:05	P	NO REACTION TO STIMULUS
				04-10-02	11:50	P	NO REACTION TO STIMULUS
				04-12-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-13-02	10:50	P	NO REACTION TO STIMULUS
				04-14-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-15-02	11:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-16-02	11:20	P	NO REACTION TO STIMULUS
				04-17-02	11:35	P	NO REACTION TO STIMULUS
				04-18-02	11:05	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				04-19-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-20-02	10:50	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS	04-21-02	10:50	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-29-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				04-30-02	11:15	P	NO REACTION TO STIMULUS
				05-01-02	11:30	P	NO REACTION TO STIMULUS
				05-02-02	11:10	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-03-02	11:05	P	NO REACTION TO STIMULUS
				05-04-02	10:41	P	NO REACTION TO STIMULUS
				05-05-02	10:35	P	NO REACTION TO STIMULUS
				05-06-02	11:00	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-07-02	11:05	P	NO REACTION TO STIMULUS
				05-08-02	11:25	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-09-02	11:20	P	NO REACTION TO STIMULUS
				05-11-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-10-02	11:05	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-12-02	10:20	P	MORE ENERGETIC RESPONSE (JUMP, FLINCH, MAY INCLUDE VOCALIZATION)
				05-13-02	11:35	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-14-02	10:55	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-15-02	11:15	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-16-02	11:10	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 186 (F1 FEMALES - RESPONSE TO NOVEL STIMULUS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

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TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74853-12	F	2500 PPM	BEHAVIOR/CNS	05-17-02	11:10	P	NO REACTION TO STIMULUS
				05-18-02	10:09	P	NO REACTION TO STIMULUS
				05-19-02	10:12	P	NO REACTION TO STIMULUS
				05-25-02	10:45	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-26-02	10:40	P	NO REACTION TO STIMULUS
				05-27-02	10:20	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-28-02	12:25	P	NO REACTION TO STIMULUS
				05-29-02	11:15	P	NO REACTION TO STIMULUS
				05-30-02	11:19	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				05-20-02	10:40	P	NO REACTION TO STIMULUS
				05-21-02	11:15	P	NO REACTION TO STIMULUS
				05-22-02	11:18	P	NO REACTION TO STIMULUS
				05-23-02	11:05	P	NO REACTION TO STIMULUS
				05-24-02	10:53	P	SLIGHT REACTION, EAR FLICK OR SOME EVIDENCE THAT STIMULUS WAS HEARD
				02-28-02	11:40	P	NO REACTION TO STIMULUS
				02-24-02	10:37	P	NO REACTION TO STIMULUS

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PCRDv4.05  
12/11/2002

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 187 (F1 MALES - 1-HOUR POST-EXPOSURE)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL CLINICAL OBSERVATIONS

PAGE 1

TABLE RANGE: 01-02-02 TO 05-30-02

ANIMAL	SEX	GROUP	CATEGORY	DATE	TIME	GRADE	OBSERVATIONS
74861-02	M	500 PPM	EXCRETA	04-28-02	14:20	P	URINE WITH APPARENT RED MATERIAL

GRADE CODE: 1 - SLIGHT 2 - MODERATE 3 - SEVERE P - PRESENT

PCRDv4.05  
09/05/2002

GROUP 1:		0 PPM							
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	DAYS PRE-COITUS	PREGNANCY STATUS	DISPOSITION		
74737-14	74810-07	03/28/02			NA	NG	D	EUTHANIZED	DAY 46
74737-10	74826-05	03/28/02			2	G	D	DELIVERED	
74740-07	74810-02	03/28/02			6	NG	D	EUTHANIZED	DAY 56
74757-11	74829-05	03/28/02			4	NG	D	EUTHANIZED	DAY 59
74759-09	74840-02	03/28/02			3	G	D	DELIVERED	
74764-10	74841-02	03/28/02			2	G	D	DELIVERED	
74767-16	74841-06	03/28/02			4	G	D	DELIVERED	
74767-10	74844-04	03/28/02			3	G	D	DELIVERED	
74772-09	74845-01	03/28/02			3	G	D	DELIVERED	
74773-15	74845-03	03/28/02			11	G	D	DELIVERED	
74773-08	74854-06	03/28/02			1	G	D	DELIVERED	
74774-15	74854-02	03/28/02			4	NG	D	EUTHANIZED	DAY 59
74789-10	74864-06	03/28/02			4	G	D	DELIVERED	
74789-09	74867-03	03/28/02			4	G	D	DELIVERED	
74804-11	74867-01	03/28/02			12	G	D	DELIVERED	
74804-08	74737-03	03/28/02			1	G	D	DELIVERED	
74808-13	74740-02	03/28/02			4	G	D	DELIVERED	
74808-11	74757-08	03/28/02			4	G	D	DELIVERED	
74810-16	74757-05	03/28/02			2	G	D	DELIVERED	
74826-11	74759-02	03/28/02			1	NG	D	EUTHANIZED	DAY 60
74826-08	74764-02	03/28/02			1	G	D	DELIVERED	
74829-11	74759-05	03/28/02			2	G	D	DELIVERED	
74840-03	74767-07	03/28/02			7	G	D	DELIVERED	
74841-12	74772-02	03/28/02			4	G	D	DELIVERED	
74844-05	74772-08	03/28/02			3	NG	D	EUTHANIZED	DAY 61

F = DIED WHILE PAIRED, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 188 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

PAGE 2

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GROUP 1:		0 PPM				DAYS PREGNANCY			
FEMALE	FIRST		SECOND		PRE-COITUS	STATUS	DISPOSITION		
NUMBER	MALE	DATE	MALE	DATE					
74844-07	74773-02	03/28/02			7	G	D	DELIVERED	
74845-07	74774-03	03/28/02			1	G	D	DELIVERED	
74854-08	74789-04	03/28/02			4	NG	D	EUTHANIZED DAY 60	
74864-15	74804-04	03/28/02			7	NG	D	EUTHANIZED DAY 55	
74867-07	74808-01	03/28/02			4	G	D	DELIVERED	

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D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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GROUP 2: 500 PPM									
FEMALE	FIRST	SECOND	DAYS PREGNANCY						
NUMBER	MALE	MALE	DATE	DATE	PRE-COITUS	STATUS	DISPOSITION		
74742-18	74809-09		03/28/02		1	G	D	DELIVERED	
74746-10	74816-05		03/28/02		1	G	D	DELIVERED	
74753-12	74819-03		03/28/02		2	G	D	DELIVERED	
74761-12	74823-01		03/28/02		1	G	D	DELIVERED	
74762-11	74824-05		03/28/02		3	G	D	DELIVERED	
74782-09	74835-03		03/28/02		2	G	D	DELIVERED	
74785-08	74838-06		03/28/02		3	G	D	DELIVERED	
74790-15	74839-02		03/28/02		5	G	D	DELIVERED	
74790-14	74846-03		03/28/02		4	G	D	DELIVERED	
74796-15	74856-06		03/28/02		4	G	D	DELIVERED	
74797-12	74859-06		03/28/02		8	NG	D	EUTHANIZED DAY 53	
74798-13	74861-02		03/28/02		3	G	D	DELIVERED	
74798-12	74863-05		03/28/02		3	G	D	DELIVERED	
74802-10	74863-02		03/28/02		8	G	D	DELIVERED	
74809-08	74869-02		03/28/02		3	G	D	DELIVERED	
74816-12	74742-03		03/28/02		5	G	D	DELIVERED	
74819-10	74746-06		03/28/02		4	G	D	DELIVERED	
74823-12	74753-04		03/28/02		4	G	D	DELIVERED	
74824-11	74753-02		03/28/02		NA	NG	D	EUTHANIZED DAY 48	
74835-11	74761-09		03/28/02		6	NG	D	EUTHANIZED DAY 58	
74835-07	74762-04		03/28/02		4	G	D	DELIVERED	
74838-11	74790-09		03/28/02		1	G	D	DELIVERED	
74839-18	74782-04		03/28/02		8	NG	D	EUTHANIZED DAY 53	
74846-07	74785-04		03/28/02		5	G	D	DELIVERED	
74856-15	74790-02		03/28/02		2	G	D	DELIVERED	

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F = DIED WHILE PAIRED, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 188 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 2:		500 PPM					
FEMALE	FIRST		SECOND	DAYS	PREGNANCY		
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS	DISPOSITION
74859-09	74796-07	03/28/02			1	G	D DELIVERED
74859-12	74797-09	03/28/02			1	G	D DELIVERED
74861-05	74798-04	03/28/02			1	G	D DELIVERED
74863-10	74802-05	03/28/02			NA	NG	D EUTHANIZED DAY 46
74869-04	74802-08	03/28/02			4	G	D DELIVERED

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F = DIED WHILE PAIRED, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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GROUP 3: 1000 PPM								
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	DAYS PRE-COITUS	PREGNANCY STATUS	DISPOSITION	
74738-07	74806-06	03/28/02			3	G	D DELIVERED	
74738-12	74820-02	03/28/02			3	G	D DELIVERED	
74739-08	74806-03	03/28/02			7	NG	D EUTHANIZED DAY 55	
74743-08	74821-02	03/28/02			NA	G	D DELIVERED	
74744-16	74830-02	03/28/02			NA	NG	D EUTHANIZED DAY 49	
74748-11	74831-02	03/28/02			6	G	D DELIVERED	
74752-10	74834-04	03/28/02			1	G	D DELIVERED	
74766-13	74847-03	03/28/02			NA	NG	D EUTHANIZED DAY 48	
74780-04	74848-03	03/28/02			8	G	D DELIVERED	
74791-13	74849-03	03/28/02			2	G	D DELIVERED	
74793-14	74850-05	03/28/02			2	G	D DELIVERED	
74795-09	74855-08	03/28/02			4	NG	D EUTHANIZED DAY 58	
74799-14	74858-04	03/28/02			3	G	D DELIVERED	
74801-14	74868-02	03/28/02			NA	NG	D EUTHANIZED DAY 46	
74806-11	74871-06	03/28/02			4	G	D DELIVERED	
74820-12	74738-02	03/28/02			2	G	D DELIVERED	
74821-09	74739-04	03/28/02			1	G	D DELIVERED	
74821-07	74743-04	03/28/02			4	G	D DELIVERED	
74830-11	74744-02	03/28/02			2	NG	D EUTHANIZED DAY 59	
74831-12	74748-05	03/28/02			5	G	D DELIVERED	
74834-07	74748-02	03/28/02			4	G	D DELIVERED	
74847-09	74752-05	03/28/02			4	G	D DELIVERED	
74848-04	74766-02	03/28/02			2	G	D DELIVERED	
74849-07	74780-03	03/28/02			2	G	D DELIVERED	
74850-11	74791-05	03/28/02			4	G	D DELIVERED	

F = DIED WHILE PAIRED, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 188 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 3:		1000 PPM				DAYS PREGNANCY			
FEMALE	FIRST		SECOND		PRE-COITUS	STATUS	DISPOSITION		
NUMBER	MALE	DATE	MALE	DATE					
74850-14	74793-05	03/28/02			8	G	D	DELIVERED	
74855-11	74791-02	03/28/02			1	G	D	DELIVERED	
74858-14	74795-06	03/28/02			4	NG	D	EUTHANIZED DAY 60	
74868-20	74799-03	03/28/02			2	G	D	DELIVERED	
74871-09	74801-10	03/28/02			10	G	D	DELIVERED	

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D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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GROUP 4: 2500 PPM									
FEMALE NUMBER	FIRST MALE	DATE	SECOND MALE	DATE	DAYS PRE-COITUS	PREGNANCY STATUS	DISPOSITION		
74747-17	74813-08	03/28/02			NA	NG	D	EUTHANIZED	DAY 48
74751-13	74817-04	03/28/02			1	G	D	DELIVERED	
74754-15	74822-15	03/28/02			2	G	D	DELIVERED	
74755-01	74822-14	03/28/02			NA	NG	D	EUTHANIZED	DAY 46
74768-11	74827-03	03/28/02			1	G	D	DELIVERED	
74769-08	74832-03	03/28/02			3	G	D	DELIVERED	
74770-11	74833-02	03/28/02			3	G	D	DELIVERED	
74770-10	74836-08	03/28/02			2	G	D	DELIVERED	
74786-10	74853-06	03/28/02			5	G	D	DELIVERED	
74787-10	74860-02	03/28/02			NA	NG	D	EUTHANIZED	DAY 47
74792-11	74860-03	03/28/02			NA	NG	D	EUTHANIZED	DAY 46
74792-12	74857-10	03/28/02			3	G	D	DELIVERED	
74807-08	74862-08	03/28/02			3	G	D	DELIVERED	
74811-13	74866-01	03/28/02			4	G	D	DELIVERED	
74813-12	74870-06	03/28/02			1	NG	D	EUTHANIZED	DAY 63
74817-13	74747-04	03/28/02			3	G	D	DELIVERED	
74822-08	74747-03	03/28/02			4	G	D	DELIVERED	
74827-11	74751-05	03/28/02			3	G	D	DELIVERED	
74832-07	74751-02	03/28/02			7	G	D	DELIVERED	
74833-11	74754-09	03/28/02			1	G	D	DELIVERED	
74836-12	74755-05	03/28/02			4	G	D	DELIVERED	
74836-11	74768-02	03/28/02			4	G	D	DELIVERED	
74853-11	74769-07	03/28/02			1	G	D	DELIVERED	
74853-12	74770-06	03/28/02			4	G	D	DELIVERED	
74857-14	74786-05	03/28/02			NA	NG	D	EUTHANIZED	DAY 48

F = DIED WHILE PAIRED, D = SELECTED TO DELIVER, G = GRAVID, NG = NONGRAVID

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 188 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL REPRODUCTIVE PERFORMANCE

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GROUP 4:		2500 PPM				DAYS PREGNANCY			
FEMALE	FIRST		SECOND						
NUMBER	MALE	DATE	MALE	DATE	PRE-COITUS	STATUS	DISPOSITION		
74857-09	74787-06	03/28/02				9	G	D	DELIVERED
74860-08	74786-07	03/28/02				2	G	D	DELIVERED
74862-13	74792-03	03/28/02				4	G	D	DELIVERED
74866-16	74807-05	03/28/02				2	G	D	DELIVERED
74870-03	74811-01	03/28/02				6	G	D	DELIVERED

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D = SELECTED TO DELIVER, G = GRAVID

PPAIRv4.03  
09/05/2002  
R:12/11/2002

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FEMALES FROM GROUP 1: 0 PPM																											INDIVIDUAL
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	MEAN LENGTH OF ESTROUS CYCLE (DAYS)
B																											
74737-14	D D D D E M D D E M D D E D D D E M D D E D D D E M D D E M D D E M D																									4.0	
74737-10	D D E M D D E M D D E M D D E M D D E M D D +																									4.0	
74740-07	D E D D D E M D D E M D D E M D D E M D D E M D D E M D D E C																									4.0	
74757-11	D D D D P E M D D D E M D D P E M D D P D D D P +																									4.7	
74759-09	D D D E M D D E M D D E M D D E D D D E M D D +																									4.0	
74764-10	D D E M D D E M D D E M D D E M D D E M D D +																									4.0	
74767-16	D D E D E D D D E M D D E M D D E M D D E M D D E M D D C																									3.6	
74767-10	D D D E M D D P E M D D P E D D D P E M D D P C																									5.0	
74772-09	D D D E M D D E M D D E M D D P E M D D E M D P C																									4.0	
74773-15	D D D D D D P M M D D E M D D E M D D E M D D E M D D E M D D +																									4.2	
74773-08	D E M D D E M D D E M D D E M D D E M D D C																									4.0	
74774-15	D D D E D D D E M D D E M D D P E D D D E M D D E +																									4.0	
74789-10	D D D D E M D D D E M D D D E M D D D E M D D P +																									5.0	
74789-09	D D D D E M D D D E M D D E M D D P E M D D D P +																									4.7	
74804-11	E D D D E D D D E M D D E M D D E M D D E M D D E M D D E M D D +																									4.0	
74804-08	D E M D D E M D D E M D D E M D D E D D D P +																									4.0	
74808-13	D D D D E M D D P E M D D D E D D D D E M D D P +																									5.0	
74808-11	D D D D E M D D P E M D D D E M D D P E M D D P C																									5.0	
74810-16	D D D M M M M M D D E M D D D E M D P M M C																									4.0	
74826-11	D E D D D D D D D E M D D E D D D E D D D C																									5.3	
74826-08	D D D D D D M D D E M D D E D D D E M D D C																									4.0	
74829-11	D E D D D E M D D E D D D E M D D E M D D P C																									4.0	
74840-03	E D D D D E M D D P E M D D D D E M D D D E M D D D P C																									5.3	
74841-12	D D D D E M D D E M D D E M D D E M D D E M D D C																									4.0	
74844-05	D D E M D M M M M D M M M M M M D E M M M D +																									16.0	

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 189 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 2

FEMALES FROM GROUP 1: 0 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	B	
74844-07	D D D E D D D E M D D E D D D E D D D E D D D C	4.0
74845-07	D E D D D E M D D E M D D E M D D E M D D +	4.0
74854-08	E D D D E M D D E D D D E M D D E M D D E M D P C	4.0
74864-15	D D E M D D D D E D D D P E D D D E M D D D E D D D P +	5.0
74867-07	E D D D E M D D E M D D E M D D E M D D E M D D +	4.0

MEAN 4.7  
 S.D. 2.19  
 N 30

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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FEMALES FROM GROUP 2: 500 PPM																						INDIVIDUAL					
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	MEAN LENGTH OF ESTROUS CYCLE (DAYS)
B																											
74742-18	D E D D D E M D D E M D D E M D D E M D D +																									4.0	
74746-10	D D E M D D E M D D D E M D D D E M D D P +																									4.7	
74753-12	D D D E M D E M D D E M D D E D D D P M D P C																									3.8	
74761-12	D D D E M D D E M D P E M D D D D P E C																									4.5	
74762-11	D D P E D D D P E M D D P E M D D P E M D D P C																									5.0	
74782-09	D D E D D D E M D D E M D D E D D D E M D D C																									4.0	
74785-08	D D D E D D D P E M D D P E D D D P E M D D P +																									5.0	
74790-15	D D D D D D E D D D E D D D E D D D E M D D D P C																									4.0	
74790-14	E M D D E M D D E M D D E D D D E D D D E D D P +																									4.0	
74796-15	D E M D D E M D D E M D D E M D D E M D D E M D C																									4.0	
74797-12	D D D D E M D D E D D D E M D D E M D D E D D D E M D D C																									4.0	
74798-13	D D E D D D D D D D D D D D E D D P E M D P C																									8.5	
74798-12	M D D E D D D E M D D E M D D E D D D E D D D C																									4.0	
74802-10	E D D D E M D D E M D D E M D D E M D D E M D D E M D D +																									4.0	
74809-08	D D D E D D D E M D D E M D D E M D D E M D D +																									4.0	
74816-12	D D D E D D D P E D D D P E D D D E D D D E M D D +																									4.5	
74819-10	E M D D E D D D E D D D E D D D E D D D E D D P +																									4.0	
74823-12	E D D D E M D P E M D D E M D D E M D D E M D P C																									4.0	
74824-11	D E D D D E M D D E M D D E M D D E M D P E D D P E M D D E D D D E M																									4.0	
74835-11	D D E M D D E M D D E M D D E M D D E M D D E M D D +																									4.0	
74835-07	E M D D E M D D E M D D E M D D E M D D E M D D C																									4.0	
74838-11	D E D D D E D D E M D D E M D D E M D D E M D D C																									4.0	
74839-18	D D D D E M D D E M D D E M D D E M D D E D D P E M D D C																									4.0	
74846-07	D D D D D E M D D P E M D D P E M D D P E M D D +																									5.0	
74856-15	D D E M D D E M D D E M D D E M D D E M D P +																									4.0	

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 189 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 4

FEMALES FROM GROUP 2: 500 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	B	
74859-09	D E D D D E M D D E M D D E M D D E D D D +	4.0
74859-12	D D D E M D D D E M D D D E D D D E D D D +	4.7
74861-05	D D P D D D E M D D P E M D D D E D D D P +	4.7
74863-10	E D D D E M D D E M D D E M D D E M D D E M D D E M D D E M D D E D D	4.0
74869-04	E D D D E M D D E M D D E M D D E D D D E M D P C	4.0
		MEAN 4.3
		S.D. 0.86
		N 30

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 189 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ESTROUS CYCLE DATA AND EVIDENCE OF MATING

PAGE 6

FEMALES FROM GROUP 3: 1000 PPM		INDIVIDUAL MEAN LENGTH OF ESTROUS CYCLE (DAYS)
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
	B	
74850-14	E M D D E M D D E M D D E D D D E M D D E M D D E M D D C	4.0
74855-11	D D D D D E M D D E M D D E M D D E M D D +	4.0
74858-14	D D D D E M D D E M D D E D D D E M D D E M D P +	4.0
74868-20	D D E M D D E M D D E M D D E M D D E M D D +	4.0
74871-09	D D E D D D E M D D E M D D E M D D E M D D E M D D E D D D +	4.0

MEAN 4.1  
 S.D. 0.30  
 N 30

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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FEMALES FROM GROUP 4: 2500 PPM																						INDIVIDUAL			
FEMALE NUMBER	DETERMINATION DAY: 1 2 3 4 5 6 7 8 9 0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	MEAN LENGTH OF ESTROUS CYCLE (DAYS)
B																									
74747-17	D D D E M D D E M D D E M D P E M D D E M D D E M D D E M D D E M D D																								4.0
74751-13	D E M D D E M D D E M D D E M D D E M D D E M D D +																								4.0
74754-15	D D E M D D E M D D E M D D E D D D E D D P +																								4.0
74755-01	D E M D D E M D P E M D D E M D D E M D D E M D D E M D D E M D D E M																								4.0
74768-11	D D E M D D E M D D P E D D D E E M D D P +																								4.7
74769-08	D D D E D D D E M D D E D D D E D D D E D D P C																								4.0
74770-11	D D D E D D D E M D D E D D D E D D D E D D P C																								4.0
74770-10	D P E M D D E M D D E M D D E D D D E D D P +																								4.0
74786-10	D D D D E M D P E M D D E D D D E D D P E D D D D C																								4.0
74787-10	D D E D D D D E M D D E M D D E M D D D E M D D E D D D E M D D E M D																								4.3
74792-11	D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D																								4.0
74792-12	D D D E D D D E M D D E D D P E D D D E D D D C																								4.0
74807-08	D D E D D D E E M D D E M D D E M D D E M D D E M D P +																								4.3
74811-13	D D D E M D D E M D D E M D D E D D D E D D D D C																								4.0
74813-12	D E M D D E M D D E M D D E M D D E M D D +																								4.0
74817-13	D D D E D D D E M D D E M D D E D D D E D D P C																								4.0
74822-08	D D D D E M D D E M D D E M D D E M D D E D D P C																								4.0
74827-11	D D D E D D D E M D D E D D P E D D D E D D P +																								4.0
74832-07	D E M D D D D E M D D P E M D D P E M D D P E M D D P +																								5.3
74833-11	D D E M D D D E M D D E D D D D E D D D E +																								4.7
74836-12	D D E D D P E M D D E D D D E D D D E M D P E M +																								4.0
74836-11	E M D D E M D D E M D D E M D D E M D P E D D D +																								4.0
74853-11	D E D D D E M D D E D D D E D D D E D D P +																								4.0
74853-12	E M D D E M D D E M D D E D D D E M D P E D D P +																								4.0
74857-14	E M D D D E M D D D D E D D D D P D D D D D D D D D D D D D D D D D E																								5.3

ESTROUS STAGE CODE: E = ESTRUS, D = DIESTRUS, M = METESTRUS, P = PROESTRUS  
 B = FIRST DAY OF BREEDING PERIOD  
 C = COPULATORY PLUG OBSERVED, + = SMEARED POSITIVE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 1

DAY	134	141	148	155	MALE GROUP: 162	0 PPM 169	176	183
ANIMAL								
74737-03	190.	258.	323.	368.	410.	428.	456.	478.
74740-02	171.	219.	269.	306.	335.	364.	385.	403.
74757-08	163.	231.	296.	359.	398.	429.	452.	472.
74757-05	163.	224.	287.	351.	394.	429.	459.	485.
74759-02	157.	211.	266.	315.	346.	363.	383.	406.
74759-05	168.	222.	278.	316.	347.	367.	395.	412.
74764-02	178.	235.	292.	345.	386.	418.	446.	470.
74767-07	139.	195.	258.	309.	338.	366.	387.	401.
74772-02	132.	190.	246.	298.	339.	374.	401.	432.
74772-08	134.	196.	259.	309.	354.	383.	410.	440.
74773-02	197.	260.	312.	355.	385.	403.	434.	452.
74774-03	139.	205.	270.	323.	369.	412.	441.	472.
74789-04	99.	150.	207.	265.	309.	338.	359.	384.
74804-04	115.	161.	210.	260.	302.	336.	366.	389.
74808-01	162.	225.	279.	316.	348.	380.	402.	420.
74810-07	137.	192.	253.	314.	358.	393.	415.	438.
74810-02	162.	219.	282.	343.	384.	421.	449.	473.
74826-05	157.	220.	278.	335.	373.	401.	432.	459.
74829-05	179.	230.	279.	319.	349.	374.	398.	418.
74840-02	165.	222.	277.	324.	354.	378.	400.	424.
74841-02	155.	212.	275.	327.	368.	398.	420.	443.
74841-06	125.	177.	229.	282.	324.	355.	380.	403.
74844-04	143.	199.	250.	310.	347.	372.	382.	413.
74845-01	141.	200.	259.	313.	360.	387.	405.	430.
74845-03	139.	186.	230.	285.	321.	351.	382.	405.
74854-06	151.	204.	259.	315.	346.	381.	403.	435.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 2

DAY	134	141	148	155	MALE GROUP: 162	0 PPM 169	176	183
ANIMAL								
74854-02	136.	202.	258.	317.	365.	411.	442.	468.
74864-06	139.	201.	260.	318.	355.	380.	404.	423.
74867-03	186.	255.	328.	376.	422.	455.	479.	505.
74867-01	194.	265.	328.	380.	429.	469.	511.	538.
MEAN	154.	212.	270.	322.	361.	391.	416.	440.
S.D.	23.5	27.2	30.0	29.1	30.7	32.3	35.1	36.3
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 3

DAY	134	141	148	155	MALE GROUP: 162	500 PPM 169	176	183
ANIMAL								
74742-03	130.	184.	231.	275.	303.	330.	346.	362.
74746-06	103.	138.	180.	234.	271.	306.	328.	349.
74753-04	152.	208.	263.	311.	346.	382.	401.	429.
74753-02	135.	187.	240.	281.	316.	341.	365.	387.
74761-09	65.	98.	137.	178.	222.	256.	279.	298.
74762-04	103.	155.	200.	242.	275.	296.	321.	339.
74790-09	148.	203.	262.	314.	352.	384.	402.	420.
74782-04	79.	127.	168.	210.	253.	288.	311.	336.
74785-04	149.	202.	258.	303.	335.	361.	387.	402.
74790-02	161.	211.	264.	311.	344.	377.	399.	417.
74796-07	133.	180.	227.	265.	301.	337.	358.	380.
74797-09	148.	207.	267.	315.	353.	386.	417.	440.
74798-04	136.	184.	238.	287.	318.	344.	367.	389.
74802-05	182.	239.	294.	334.	375.	409.	429.	447.
74802-08	170.	225.	268.	300.	330.	348.	360.	378.
74809-09	167.	226.	280.	335.	385.	415.	445.	466.
74816-05	160.	209.	253.	288.	324.	354.	373.	392.
74819-03	143.	205.	260.	308.	342.	368.	398.	413.
74823-01	155.	217.	269.	306.	326.	352.	364.	374.
74824-05	84.	129.	180.	229.	277.	306.	330.	355.
74835-03	160.	226.	285.	333.	368.	397.	423.	436.
74838-06	165.	221.	269.	306.	326.	347.	367.	384.
74839-02	170.	227.	278.	323.	357.	383.	396.	410.
74846-03	193.	264.	317.	366.	393.	427.	450.	476.
74856-06	124.	171.	222.	263.	293.	317.	333.	342.
74859-06	88.	146.	204.	259.	299.	328.	347.	359.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 4

DAY	134	141	148	155	MALE GROUP: 162	500 PPM 169	176	183
ANIMAL								
74861-02	101.	146.	195.	242.	285.	314.	333.	352.
74863-05	166.	227.	290.	336.	377.	410.	431.	448.
74863-02	163.	223.	283.	339.	378.	410.	429.	440.
74869-02	178.	236.	281.	330.	359.	387.	404.	418.
MEAN	140.	194.	245.	291.	326.	355.	376.	395.
S.D.	33.3	39.5	42.8	43.6	41.9	42.5	43.1	43.2
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 5

DAY	134	141	148	155	MALE GROUP: 162	1000 PPM 169	176	183
ANIMAL								
74738-02	130.	184.	239.	286.	326.	358.	377.	392.
74739-04	163.	221.	274.	314.	341.	369.	387.	403.
74743-04	158.	210.	258.	295.	316.	345.	367.	380.
74744-02	112.	153.	186.	221.	258.	286.	302.	319.
74748-05	103.	135.	172.	216.	263.	297.	320.	342.
74748-02	87.	134.	176.	216.	248.	277.	292.	316.
74752-05	161.	210.	257.	298.	332.	367.	386.	407.
74766-02	151.	211.	227.	282.	326.	348.	374.	385.
74780-03	145.	203.	261.	311.	357.	402.	430.	453.
74791-05	124.	172.	226.	260.	290.	320.	330.	350.
74791-02	111.	162.	217.	262.	302.	331.	356.	381.
74793-05	150.	208.	259.	299.	326.	356.	371.	391.
74795-06	158.	217.	277.	326.	359.	383.	409.	429.
74799-03	86.	142.	209.	267.	317.	364.	391.	415.
74801-10	175.	236.	297.	342.	373.	394.	409.	430.
74806-06	156.	212.	270.	313.	340.	368.	385.	397.
74806-03	161.	218.	271.	316.	344.	380.	406.	425.
74820-02	148.	196.	251.	296.	329.	362.	385.	407.
74821-02	101.	146.	203.	252.	286.	311.	338.	361.
74830-02	138.	202.	262.	308.	340.	371.	394.	410.
74831-02	153.	214.	266.	317.	353.	358.	365.	372.
74834-04	179.	243.	302.	342.	383.	409.	441.	467.
74847-03	164.	226.	286.	333.	369.	397.	424.	439.
74848-03	155.	223.	286.	339.	377.	417.	431.	463.
74849-03	156.	214.	275.	316.	357.	386.	415.	435.
74850-05	135.	187.	243.	281.	303.	326.	346.	360.

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SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 6

DAY	134	141	148	155	MALE GROUP: 162	1000 PPM 169	176	183
ANIMAL								
74855-08	170.	226.	268.	309.	344.	365.	390.	412.
74858-04	160.	225.	286.	323.	358.	393.	418.	429.
74868-02	68.	114.	164.	211.	254.	288.	316.	336.
74871-06	153.	209.	263.	303.	332.	359.	371.	388.
MEAN	140.	195.	248.	292.	327.	356.	378.	396.
S.D.	28.7	34.3	38.0	38.2	37.2	37.4	39.1	39.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 7

DAY	134	141	148	155	MALE GROUP: 162	2500 PPM 169	176	183
ANIMAL								
74747-04	144.	198.	256.	300.	334.	365.	378.	392.
74747-03	175.	236.	300.	345.	387.	415.	444.	468.
74751-05	150.	213.	269.	316.	352.	385.	405.	422.
74751-02	141.	200.	253.	303.	344.	376.	403.	420.
74754-09	152.	199.	254.	294.	319.	345.	366.	376.
74755-05	179.	242.	295.	347.	384.	406.	426.	448.
74768-02	173.	235.	291.	333.	382.	410.	444.	467.
74769-07	94.	144.	198.	249.	297.	328.	352.	373.
74770-06	179.	248.	311.	367.	399.	443.	440.	487.
74786-05	171.	227.	287.	337.	382.	411.	453.	487.
74786-07	168.	227.	285.	328.	361.	384.	395.	414.
74787-06	136.	186.	235.	272.	304.	328.	349.	364.
74792-03	168.	224.	273.	318.	354.	389.	413.	432.
74807-05	86.	128.	170.	215.	251.	276.	300.	316.
74811-01	166.	230.	291.	342.	389.	426.	454.	471.
74813-08	133.	191.	244.	296.	335.	362.	387.	400.
74817-04	141.	201.	258.	313.	351.	382.	398.	401.
74822-15	163.	218.	267.	295.	323.	343.	350.	364.
74822-14	178.	244.	298.	333.	358.	375.	393.	405.
74827-03	127.	177.	226.	263.	287.	303.	312.	318.
74832-03	165.	226.	289.	337.	374.	406.	428.	452.
74833-02	156.	206.	254.	299.	333.	364.	389.	412.
74836-08	182.	240.	295.	341.	379.	414.	439.	471.
74853-06	157.	218.	273.	326.	369.	399.	413.	430.
74857-10	170.	220.	267.	318.	351.	388.	421.	448.
74860-03	161.	223.	293.	334.	373.	399.	418.	446.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 8

DAY	134	141	148	155	MALE GROUP: 162	2500 PPM 169	176	183
ANIMAL								
74860-02	134.	185.	243.	284.	323.	355.	376.	405.
74862-08	111.	165.	224.	266.	307.	333.	358.	374.
74866-01	159.	216.	276.	327.	368.	404.	423.	451.
74870-06	171.	225.	288.	332.	379.	413.	445.	468.
MEAN	153.	210.	265.	311.	348.	378.	399.	419.
S.D.	24.5	28.9	32.0	33.4	35.2	38.3	40.4	46.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 9

DAY	190	197	204	211	MALE GROUP: 218	0 PPM 225	232	239
ANIMAL								
74737-03	501.	518.	530.	535.	557.	562.	549.	565.
74740-02	424.	438.	445.	449.	454.	466.	475.	484.
74757-08	495.	518.	530.	531.	552.	567.	575.	580.
74757-05	514.	517.	533.	535.	563.	565.	571.	580.
74759-02	420.	433.	450.	459.	463.	482.	483.	494.
74759-05	429.	440.	449.	453.	469.	472.	485.	494.
74764-02	485.	501.	509.	520.	527.	543.	550.	553.
74767-07	418.	429.	437.	456.	457.	463.	469.	482.
74772-02	458.	469.	486.	494.	514.	526.	538.	551.
74772-08	458.	478.	494.	500.	514.	521.	529.	538.
74773-02	467.	481.	490.	502.	512.	508.	529.	517.
74774-03	486.	508.	529.	548.	560.	569.	574.	591.
74789-04	404.	418.	425.	436.	448.	460.	463.	470.
74804-04	415.	429.	444.	446.	457.	479.	486.	496.
74808-01	449.	459.	475.	480.	502.	513.	522.	530.
74810-07	459.	474.	483.	487.	494.	503.	501.	512.
74810-02	495.	512.	519.	521.	538.	551.	560.	552.
74826-05	475.	494.	497.	519.	524.	533.	523.	521.
74829-05	433.	446.	455.	452.	460.	466.	478.	485.
74840-02	442.	456.	465.	473.	480.	494.	488.	501.
74841-02	464.	475.	491.	489.	507.	505.	516.	524.
74841-06	427.	437.	451.	462.	475.	487.	498.	499.
74844-04	435.	449.	457.	460.	470.	472.	474.	486.
74845-01	449.	454.	464.	473.	492.	508.	518.	530.
74845-03	424.	436.	458.	458.	474.	484.	493.	497.
74854-06	457.	465.	474.	472.	483.	489.	484.	512.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 10

DAY	190	197	204	211	MALE GROUP: 218	0 PPM 225	232	239
ANIMAL								
74854-02	485.	502.	517.	527.	547.	561.	567.	572.
74864-06	442.	460.	470.	490.	507.	522.	520.	531.
74867-03	524.	538.	558.	567.	580.	593.	610.	622.
74867-01	572.	578.	604.	592.	592.	613.	620.	614.
MEAN	460.	474.	486.	493.	506.	516.	522.	529.
S.D.	37.8	38.1	40.4	39.3	40.9	41.7	42.4	40.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 11

DAY	190	197	204	211	MALE GROUP: 218	500 PPM 225	232	239
ANIMAL								
74742-03	376.	388.	397.	401.	406.	415.	420.	428.
74746-06	369.	384.	389.	401.	416.	423.	421.	421.
74753-04	448.	461.	475.	489.	497.	512.	518.	523.
74753-02	395.	407.	416.	434.	447.	449.	452.	460.
74761-09	317.	332.	345.	351.	370.	382.	384.	389.
74762-04	354.	359.	367.	383.	387.	395.	406.	411.
74790-09	443.	452.	469.	419.	474.	501.	509.	514.
74782-04	353.	363.	372.	375.	381.	381.	390.	395.
74785-04	416.	432.	439.	449.	453.	471.	482.	484.
74790-02	438.	456.	474.	488.	510.	523.	535.	549.
74796-07	394.	413.	421.	423.	441.	453.	461.	465.
74797-09	466.	476.	490.	506.	512.	522.	536.	538.
74798-04	413.	426.	431.	452.	458.	476.	476.	474.
74802-05	463.	481.	486.	501.	504.	509.	522.	527.
74802-08	390.	402.	404.	410.	425.	436.	430.	439.
74809-09	481.	485.	500.	515.	529.	533.	528.	535.
74816-05	416.	439.	436.	455.	466.	481.	486.	492.
74819-03	441.	456.	471.	480.	499.	509.	501.	517.
74823-01	394.	404.	420.	427.	437.	443.	443.	451.
74824-05	377.	391.	404.	414.	428.	443.	446.	454.
74835-03	457.	465.	480.	484.	495.	507.	510.	518.
74838-06	403.	411.	418.	418.	425.	434.	433.	448.
74839-02	433.	447.	454.	461.	475.	489.	490.	494.
74846-03	507.	512.	522.	535.	545.	565.	565.	567.
74856-06	356.	372.	382.	396.	402.	425.	424.	422.
74859-06	367.	378.	379.	391.	395.	398.	412.	414.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 12

DAY	190	197	204	211	MALE GROUP: 218	500 PPM 225	232	239
ANIMAL								
74861-02	369.	380.	390.	402.	411.	420.	413.	420.
74863-05	468.	480.	490.	509.	523.	533.	526.	529.
74863-02	464.	478.	490.	504.	500.	516.	526.	531.
74869-02	433.	446.	460.	470.	480.	487.	491.	499.
MEAN	413.	426.	436.	445.	456.	468.	471.	477.
S.D.	45.7	45.2	46.7	48.5	48.6	50.3	50.4	50.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 13

DAY	190	197	204	211	MALE GROUP: 218	1000 PPM 225	232	239
ANIMAL								
74738-02	408.	421.	430.	433.	448.	457.	467.	470.
74739-04	409.	422.	436.	438.	447.	453.	462.	473.
74743-04	398.	408.	421.	434.	453.	460.	474.	471.
74744-02	328.	342.	348.	359.	369.	383.	393.	402.
74748-05	357.	372.	379.	391.	407.	422.	425.	426.
74748-02	333.	343.	350.	355.	364.	379.	370.	383.
74752-05	420.	432.	446.	455.	477.	486.	494.	506.
74766-02	395.	421.	419.	439.	453.	456.	463.	470.
74780-03	477.	486.	500.	511.	528.	546.	551.	555.
74791-05	367.	375.	385.	391.	397.	413.	418.	429.
74791-02	395.	411.	425.	435.	446.	457.	456.	472.
74793-05	410.	419.	423.	439.	445.	456.	457.	460.
74795-06	450.	462.	476.	481.	496.	516.	521.	525.
74799-03	431.	458.	473.	483.	499.	515.	514.	530.
74801-10	433.	432.	450.	466.	487.	490.	470.	488.
74806-06	414.	426.	441.	453.	466.	479.	487.	503.
74806-03	448.	457.	455.	465.	489.	502.	507.	513.
74820-02	427.	443.	456.	465.	486.	486.	506.	512.
74821-02	380.	398.	413.	422.	423.	447.	443.	463.
74830-02	422.	431.	444.	458.	467.	480.	483.	492.
74831-02	426.	432.	458.	456.	466.	485.	479.	479.
74834-04	489.	507.	525.	534.	556.	572.	577.	588.
74847-03	469.	484.	481.	493.	500.	502.	504.	517.
74848-03	484.	505.	523.	527.	539.	563.	558.	569.
74849-03	460.	472.	490.	507.	525.	523.	539.	534.
74850-05	385.	398.	393.	404.	423.	433.	434.	445.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 14

DAY	190	197	204	211	MALE GROUP: 218	1000 PPM 225	232	239
ANIMAL								
74855-08	433.	445.	464.	464.	494.	497.	506.	514.
74858-04	444.	458.	472.	472.	484.	495.	492.	513.
74868-02	353.	360.	376.	381.	389.	396.	392.	395.
74871-06	396.	419.	427.	434.	450.	454.	458.	462.
MEAN	415.	428.	439.	448.	462.	473.	477.	485.
S.D.	41.9	42.7	45.0	45.0	47.7	47.8	49.1	49.1
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 15

DAY	190	197	204	211	MALE GROUP: 218	2500 PPM 225	232	239
ANIMAL								
74747-04	408.	431.	460.	453.	466.	489.	495.	506.
74747-03	491.	508.	521.	520.	542.	558.	547.	556.
74751-05	443.	454.	465.	473.	482.	501.	512.	515.
74751-02	442.	458.	467.	474.	495.	510.	511.	520.
74754-09	396.	405.	406.	415.	420.	425.	421.	428.
74755-05	468.	479.	494.	495.	510.	526.	534.	533.
74768-02	491.	499.	509.	511.	523.	538.	544.	547.
74769-07	396.	404.	418.	423.	437.	449.	449.	451.
74770-06	505.	541.	547.	543.	551.	562.	579.	589.
74786-05	519.	535.	554.	566.	571.	592.	602.	626.
74786-07	425.	438.	446.	456.	463.	478.	478.	481.
74787-06	384.	395.	396.	420.	430.	438.	439.	422.
74792-03	448.	468.	484.	497.	508.	517.	533.	538.
74807-05	330.	345.	356.	362.	376.	383.	376.	383.
74811-01	501.	516.	523.	520.	540.	550.	560.	569.
74813-08	427.	443.	456.	457.	463.	476.	481.	491.
74817-04	422.	449.	465.	474.	494.	502.	509.	516.
74822-15	377.	378.	377.	391.	402.	400.	408.	415.
74822-14	424.	437.	443.	451.	472.	480.	484.	486.
74827-03	336.	335.	344.	341.	341.	346.	353.	362.
74832-03	475.	488.	496.	505.	515.	529.	531.	533.
74833-02	423.	440.	451.	464.	473.	483.	477.	490.
74836-08	497.	519.	530.	537.	551.	564.	576.	586.
74853-06	446.	462.	467.	465.	475.	481.	481.	493.
74857-10	467.	491.	505.	524.	543.	559.	569.	581.
74860-03	463.	481.	489.	503.	504.	528.	483.	526.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 16

DAY	190	197	204	211	MALE GROUP: 218	2500 PPM 225	232	239
ANIMAL								
74860-02	424.	450.	475.	478.	491.	500.	518.	537.
74862-08	396.	411.	425.	433.	448.	461.	457.	467.
74866-01	471.	492.	505.	514.	527.	541.	561.	581.
74870-06	492.	520.	541.	551.	568.	572.	585.	602.
MEAN	440.	456.	467.	474.	486.	498.	502.	511.
S.D.	48.4	52.7	54.6	54.2	55.9	58.7	62.1	65.2
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 17

DAY	246	253	260	266	MALE GROUP:	0 PPM	
ANIMAL							
74737-03	584.	553.	580.	584.	SCHEDULED	EUTH DAY	268
74740-02	495.	495.	506.	506.	SCHEDULED	EUTH DAY	269
74757-08	588.	587.	596.	605.	SCHEDULED	EUTH DAY	269
74757-05	585.	569.	595.	598.	SCHEDULED	EUTH DAY	267
74759-02	508.	511.	506.	513.	SCHEDULED	EUTH DAY	267
74759-05	507.	502.	510.	510.	SCHEDULED	EUTH DAY	269
74764-02	558.	566.	558.	573.	SCHEDULED	EUTH DAY	267
74767-07	478.	472.	483.	487.	SCHEDULED	EUTH DAY	266
74772-02	568.	558.	565.	568.	SCHEDULED	EUTH DAY	266
74772-08	548.	552.	553.	555.	SCHEDULED	EUTH DAY	266
74773-02	539.	530.	511.	508.	SCHEDULED	EUTH DAY	269
74774-03	601.	589.	605.	609.	SCHEDULED	EUTH DAY	266
74789-04	481.	487.	482.	491.	SCHEDULED	EUTH DAY	266
74804-04	499.	507.	521.	520.	SCHEDULED	EUTH DAY	269
74808-01	545.	549.	562.	569.	SCHEDULED	EUTH DAY	267
74810-07	510.	499.	498.	503.	SCHEDULED	EUTH DAY	268
74810-02	565.	563.	568.	570.	SCHEDULED	EUTH DAY	269
74826-05	524.	529.	523.	527.	SCHEDULED	EUTH DAY	267
74829-05	493.	492.	488.	493.	SCHEDULED	EUTH DAY	268
74840-02	519.	504.	521.	519.	SCHEDULED	EUTH DAY	268
74841-02	536.	537.	538.	543.	SCHEDULED	EUTH DAY	269
74841-06	516.	512.	512.	499.	SCHEDULED	EUTH DAY	268
74844-04	499.	503.	502.	504.	SCHEDULED	EUTH DAY	266
74845-01	539.	544.	541.	542.	SCHEDULED	EUTH DAY	267
74845-03	508.	506.	525.	532.	SCHEDULED	EUTH DAY	268
74854-06	525.	517.	510.	515.	SCHEDULED	EUTH DAY	266

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 18

DAY	246	253	260	266	MALE GROUP:	0 PPM
ANIMAL						
74854-02	571.	576.	585.	601.	SCHEDULED EUTH DAY	268
74864-06	552.	553.	555.	557.	SCHEDULED EUTH DAY	267
74867-03	641.	646.	655.	639.	SCHEDULED EUTH DAY	266
74867-01	622.	629.	633.	640.	SCHEDULED EUTH DAY	268
MEAN	540.	538.	543.	546.		
S.D.	41.7	41.5	44.6	44.8		
N	30	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 19

DAY	246	253	260	266	MALE GROUP:	500 PPM	
ANIMAL							
74742-03	439.	428.	436.	443.	SCHEDULED	EUTH DAY	268
74746-06	431.	434.	446.	446.	SCHEDULED	EUTH DAY	269
74753-04	531.	538.	543.	539.	SCHEDULED	EUTH DAY	268
74753-02	474.	467.	477.	482.	SCHEDULED	EUTH DAY	268
74761-09	395.	397.	405.	416.	SCHEDULED	EUTH DAY	267
74762-04	413.	417.	433.	433.	SCHEDULED	EUTH DAY	266
74790-09	525.	534.	545.	554.	SCHEDULED	EUTH DAY	269
74782-04	407.	410.	417.	422.	SCHEDULED	EUTH DAY	269
74785-04	497.	500.	505.	515.	SCHEDULED	EUTH DAY	269
74790-02	573.	578.	583.	573.	SCHEDULED	EUTH DAY	266
74796-07	474.	479.	488.	491.	SCHEDULED	EUTH DAY	267
74797-09	536.	555.	562.	571.	SCHEDULED	EUTH DAY	268
74798-04	485.	491.	502.	502.	SCHEDULED	EUTH DAY	267
74802-05	521.	537.	537.	536.	SCHEDULED	EUTH DAY	267
74802-08	452.	452.	453.	449.	SCHEDULED	EUTH DAY	266
74809-09	536.	529.	547.	559.	SCHEDULED	EUTH DAY	269
74816-05	496.	496.	505.	516.	SCHEDULED	EUTH DAY	267
74819-03	520.	524.	522.	529.	SCHEDULED	EUTH DAY	266
74823-01	464.	456.	470.	466.	SCHEDULED	EUTH DAY	269
74824-05	460.	483.	485.	490.	SCHEDULED	EUTH DAY	268
74835-03	531.	533.	543.	549.	SCHEDULED	EUTH DAY	269
74838-06	461.	463.	456.	462.	SCHEDULED	EUTH DAY	266
74839-02	505.	519.	523.	525.	SCHEDULED	EUTH DAY	268
74846-03	572.	574.	581.	581.	SCHEDULED	EUTH DAY	266
74856-06	426.	417.	394.	438.	SCHEDULED	EUTH DAY	266
74859-06	422.	419.	424.	439.	SCHEDULED	EUTH DAY	267

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 20

DAY	246	253	260	266	MALE GROUP:	500 PPM
ANIMAL						
74861-02	434.	448.	462.	466.	SCHEDULED EUTH DAY	269
74863-05	538.	548.	539.	556.	SCHEDULED EUTH DAY	268
74863-02	548.	539.	544.	548.	SCHEDULED EUTH DAY	267
74869-02	507.	521.	522.	531.	SCHEDULED EUTH DAY	267
MEAN	486.	490.	495.	501.		
S.D.	50.6	52.9	53.4	50.9		
N	30	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 21

DAY	246	253	260	266	MALE GROUP:	1000 PPM
ANIMAL						
74738-02	475.	484.	490.	499.	SCHEDULED EUTH DAY	266
74739-04	492.	494.	487.	493.	SCHEDULED EUTH DAY	266
74743-04	483.	487.	467.	477.	SCHEDULED EUTH DAY	269
74744-02	407.	411.	417.	408.	SCHEDULED EUTH DAY	266
74748-05	439.	446.	455.	458.	SCHEDULED EUTH DAY	267
74748-02	387.	388.	393.	397.	SCHEDULED EUTH DAY	268
74752-05	514.	520.	520.	530.	SCHEDULED EUTH DAY	268
74766-02	476.	485.	499.	500.	SCHEDULED EUTH DAY	267
74780-03	564.	572.	587.	585.	SCHEDULED EUTH DAY	269
74791-05	437.	439.	445.	452.	SCHEDULED EUTH DAY	269
74791-02	485.	500.	497.	499.	SCHEDULED EUTH DAY	268
74793-05	477.	471.	474.	483.	SCHEDULED EUTH DAY	266
74795-06	542.	535.	533.	533.	SCHEDULED EUTH DAY	266
74799-03	540.	533.	542.	544.	SCHEDULED EUTH DAY	268
74801-10	501.	497.	497.	506.	SCHEDULED EUTH DAY	267
74806-06	514.	520.	524.	530.	SCHEDULED EUTH DAY	267
74806-03	524.	532.	528.	545.	SCHEDULED EUTH DAY	269
74820-02	521.	528.	529.	539.	SCHEDULED EUTH DAY	268
74821-02	474.	469.	479.	487.	SCHEDULED EUTH DAY	267
74830-02	513.	508.	516.	527.	SCHEDULED EUTH DAY	269
74831-02	489.	506.	509.	506.	SCHEDULED EUTH DAY	268
74834-04	580.	602.	607.	608.	SCHEDULED EUTH DAY	267
74847-03	529.	534.	551.	554.	SCHEDULED EUTH DAY	269
74848-03	589.	606.	604.	604.	SCHEDULED EUTH DAY	267
74849-03	544.	553.	555.	564.	SCHEDULED EUTH DAY	268
74850-05	461.	454.	453.	457.	SCHEDULED EUTH DAY	268

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TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 22

DAY	246	253	260	266	MALE GROUP:	1000 PPM
ANIMAL						
74855-08	527.	532.	529.	536.	SCHEDULED EUTH DAY	269
74858-04	534.	549.	549.	534.	SCHEDULED EUTH DAY	266
74868-02	405.	401.	417.	405.	SCHEDULED EUTH DAY	266
74871-06	465.	472.	478.	486.	SCHEDULED EUTH DAY	266
MEAN	496.	501.	504.	508.		
S.D.	49.7	53.0	52.3	53.0		
N	30	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 23

DAY	246	253	260	266	MALE GROUP:	2500 PPM	
ANIMAL							
74747-04	519.	527.	517.	517.	SCHEDULED	EUTH DAY	268
74747-03	577.	573.	562.	569.	SCHEDULED	EUTH DAY	266
74751-05	528.	526.	535.	547.	SCHEDULED	EUTH DAY	267
74751-02	530.	530.	537.	538.	SCHEDULED	EUTH DAY	268
74754-09	446.	449.	449.	455.	SCHEDULED	EUTH DAY	268
74755-05	548.	555.	562.	568.	SCHEDULED	EUTH DAY	269
74768-02	560.	559.	563.	578.	SCHEDULED	EUTH DAY	266
74769-07	453.	456.	458.	461.	SCHEDULED	EUTH DAY	268
74770-06	610.	609.	610.	618.	SCHEDULED	EUTH DAY	268
74786-05	618.	629.	646.	644.	SCHEDULED	EUTH DAY	266
74786-07	483.	482.	499.	493.	SCHEDULED	EUTH DAY	269
74787-06	411.	421.	435.	439.	SCHEDULED	EUTH DAY	266
74792-03	543.	548.	551.	552.	SCHEDULED	EUTH DAY	267
74807-05	394.	401.	407.	417.	SCHEDULED	EUTH DAY	269
74811-01	579.	570.	581.	586.	SCHEDULED	EUTH DAY	267
74813-08	493.	493.	496.	505.	SCHEDULED	EUTH DAY	268
74817-04	529.	531.	527.	530.	SCHEDULED	EUTH DAY	269
74822-15	423.	427.	414.	417.	SCHEDULED	EUTH DAY	266
74822-14	499.	516.	508.	520.	SCHEDULED	EUTH DAY	266
74827-03	376.	374.	374.	387.	SCHEDULED	EUTH DAY	266
74832-03	546.	554.	561.	558.	SCHEDULED	EUTH DAY	267
74833-02	506.	517.	510.	512.	SCHEDULED	EUTH DAY	269
74836-08	593.	597.	601.	604.	SCHEDULED	EUTH DAY	267
74853-06	496.	496.	503.	517.	SCHEDULED	EUTH DAY	267
74857-10	595.	598.	610.	616.	SCHEDULED	EUTH DAY	268
74860-03	547.	558.	560.	569.	SCHEDULED	EUTH DAY	269

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 190 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 24

DAY	246	253	260	266	MALE GROUP:	2500 PPM
ANIMAL						
74860-02	558.	566.	570.	571.	SCHEDULED EUTH DAY	269
74862-08	476.	473.	479.	481.	SCHEDULED EUTH DAY	269
74866-01	589.	601.	607.	621.	SCHEDULED EUTH DAY	267
74870-06	609.	608.	619.	636.	SCHEDULED EUTH DAY	267
MEAN	521.	525.	528.	534.		
S.D.	66.2	66.3	68.2	68.4		
N	30	30	30	30		

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 1

DAY	FEMALE GROUP:					0 PPM		176	183
	134	141	148	155	162	169	169		
ANIMAL									
74737-14	154.	190.	216.	246.	270.	275.	282.	301.	
74737-10	148.	173.	209.	221.	245.	256.	262.	266.	
74740-07	153.	178.	199.	218.	226.	226.	257.	273.	
74757-11	148.	178.	200.	221.	240.	253.	260.	273.	
74759-09	132.	158.	168.	191.	205.	211.	217.	232.	
74764-10	140.	173.	197.	215.	242.	265.	277.	285.	
74767-16	129.	166.	194.	208.	231.	245.	252.	262.	
74767-10	154.	185.	203.	236.	245.	261.	270.	275.	
74772-09	112.	150.	180.	203.	221.	235.	251.	260.	
74773-15	139.	165.	192.	211.	216.	239.	235.	249.	
74773-08	151.	179.	207.	223.	238.	253.	265.	276.	
74774-15	122.	164.	196.	235.	262.	284.	294.	310.	
74789-10	103.	146.	170.	200.	213.	232.	239.	250.	
74789-09	99.	127.	156.	184.	207.	219.	240.	248.	
74804-11	103.	141.	168.	189.	213.	217.	232.	249.	
74804-08	118.	153.	181.	204.	218.	236.	246.	257.	
74808-13	147.	178.	205.	232.	235.	260.	264.	283.	
74808-11	130.	158.	182.	203.	223.	227.	249.	253.	
74810-16	135.	160.	186.	204.	225.	234.	239.	259.	
74826-11	129.	157.	189.	203.	217.	233.	249.	260.	
74826-08	137.	171.	199.	211.	222.	242.	251.	259.	
74829-11	154.	191.	219.	238.	244.	269.	280.	282.	
74840-03	151.	194.	221.	235.	261.	269.	274.	305.	
74841-12	131.	159.	181.	197.	210.	213.	221.	232.	
74844-05	118.	153.	179.	200.	223.	236.	242.	262.	
74844-07	111.	139.	162.	190.	206.	220.	225.	239.	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 2

DAY	134	141	148	FEMALE GROUP:		0 PPM	176	183
				155	162	169		
ANIMAL								
74845-07	121.	151.	172.	194.	203.	231.	241.	248.
74854-08	118.	156.	188.	208.	229.	235.	252.	265.
74864-15	86.	126.	147.	175.	190.	209.	220.	227.
74867-07	168.	190.	227.	249.	266.	271.	303.	319.
MEAN	131.	164.	190.	211.	228.	242.	253.	265.
S.D.	19.8	18.2	19.7	18.9	20.0	20.7	21.4	22.9
N	30	30	30	30	30	30	30	30

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TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:		500 PPM		176	183		
	134	141	148	155			162	169
ANIMAL								
74742-18	91.	113.	135.	150.	159.	174.	184.	194.
74746-10	120.	152.	188.	217.	236.	262.	261.	286.
74753-12	122.	156.	189.	202.	234.	241.	254.	259.
74761-12	82.	116.	145.	172.	187.	200.	222.	223.
74762-11	99.	135.	149.	182.	201.	208.	225.	235.
74782-09	74.	110.	136.	154.	175.	192.	203.	213.
74785-08	118.	148.	175.	197.	217.	232.	237.	239.
74790-15	126.	138.	149.	171.	187.	207.	210.	221.
74790-14	125.	153.	183.	208.	227.	240.	252.	261.
74796-15	151.	186.	219.	246.	263.	292.	310.	326.
74797-12	123.	150.	172.	196.	209.	211.	227.	233.
74798-13	109.	141.	174.	187.	207.	224.	238.	242.
74798-12	121.	152.	181.	209.	225.	250.	254.	269.
74802-10	125.	164.	193.	219.	231.	239.	245.	256.
74809-08	134.	161.	182.	206.	219.	230.	229.	239.
74816-12	145.	165.	189.	201.	225.	243.	248.	260.
74819-10	115.	144.	168.	194.	213.	225.	239.	253.
74823-12	133.	168.	183.	207.	229.	242.	251.	266.
74824-11	102.	139.	163.	191.	208.	228.	243.	252.
74835-11	104.	123.	137.	145.	161.	170.	173.	173.
74835-07	136.	146.	185.	205.	213.	223.	245.	255.
74838-11	141.	164.	182.	199.	207.	229.	239.	246.
74839-18	135.	163.	192.	219.	231.	238.	252.	263.
74846-07	159.	176.	201.	218.	232.	241.	238.	245.
74856-15	94.	126.	154.	173.	190.	207.	219.	227.
74859-09	114.	151.	184.	199.	210.	232.	243.	250.

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PROJECT NO.:WIL-186013D  
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TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 4

DAY	134	141	148	FEMALE GROUP:		500 PPM		176	183
				155	162	169			
ANIMAL									
74859-12	135.	172.	197.	220.	239.	250.	267.	277.	
74861-05	100.	131.	152.	175.	187.	206.	214.	222.	
74863-10	145.	180.	209.	233.	252.	257.	274.	289.	
74869-04	137.	166.	192.	213.	231.	248.	264.	272.	
MEAN	121.	150.	175.	197.	214.	228.	239.	248.	
S.D.	20.6	19.7	22.1	23.7	24.7	25.7	26.6	29.4	
N	30	30	30	30	30	30	30	30	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 5

DAY	FEMALE GROUP:							
	134	141	148	155	162	1000 PPM 169	176	183
ANIMAL								
74738-07	134.	166.	187.	212.	232.	244.	249.	265.
74738-12	115.	149.	172.	200.	217.	228.	249.	251.
74739-08	153.	186.	216.	227.	257.	261.	277.	282.
74743-08	148.	179.	208.	226.	241.	247.	266.	271.
74744-16	90.	131.	163.	180.	203.	225.	235.	236.
74748-11	90.	121.	149.	172.	192.	206.	217.	222.
74752-10	153.	178.	200.	206.	239.	243.	265.	277.
74766-13	109.	142.	168.	186.	209.	219.	223.	232.
74780-04	136.	155.	178.	206.	217.	248.	258.	266.
74791-13	100.	127.	151.	165.	180.	187.	199.	208.
74793-14	124.	155.	180.	197.	218.	230.	240.	243.
74795-09	134.	168.	201.	236.	273.	261.	280.	295.
74799-14	107.	136.	151.	179.	194.	208.	206.	221.
74801-14	141.	182.	214.	240.	263.	281.	289.	302.
74806-11	119.	145.	175.	199.	213.	225.	238.	245.
74820-12	137.	164.	187.	198.	209.	226.	237.	240.
74821-09	111.	141.	165.	198.	210.	240.	252.	264.
74821-07	123.	152.	178.	206.	219.	227.	237.	245.
74830-11	116.	154.	182.	202.	222.	247.	251.	253.
74831-12	124.	157.	192.	218.	224.	246.	265.	266.
74834-07	127.	155.	180.	195.	210.	207.	226.	237.
74847-09	133.	156.	178.	201.	229.	245.	257.	272.
74848-04	135.	166.	190.	213.	240.	250.	263.	265.
74849-07	104.	126.	156.	173.	181.	207.	219.	221.
74850-11	103.	127.	157.	180.	196.	204.	215.	223.
74850-14	121.	150.	181.	199.	213.	220.	240.	244.

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TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 6

DAY	134	141	148	FEMALE GROUP:		1000 PPM	176	183
				155	162	169		
ANIMAL								
74855-11	147.	170.	194.	212.	222.	241.	249.	254.
74858-14	129.	160.	194.	216.	236.	247.	257.	269.
74868-20	76.	123.	136.	174.	205.	223.	233.	231.
74871-09	124.	149.	169.	189.	209.	230.	239.	244.
MEAN	122.	152.	178.	200.	219.	232.	244.	251.
S.D.	19.1	18.0	19.7	19.0	22.0	20.3	21.7	22.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 7

DAY	FEMALE GROUP:							
	134	141	148	155	162	2500 PPM 169	176	183
ANIMAL								
74747-17	151.	179.	200.	220.	244.	258.	259.	279.
74751-13	130.	162.	179.	200.	212.	234.	254.	253.
74754-15	112.	141.	172.	191.	218.	233.	249.	249.
74755-01	126.	145.	165.	177.	182.	198.	206.	211.
74768-11	139.	171.	203.	219.	242.	260.	271.	280.
74769-08	105.	142.	170.	190.	218.	233.	246.	250.
74770-11	127.	160.	183.	216.	239.	260.	263.	281.
74770-10	146.	185.	221.	232.	255.	279.	295.	291.
74786-10	139.	149.	168.	182.	192.	203.	221.	232.
74787-10	131.	160.	182.	199.	206.	221.	234.	239.
74792-11	143.	170.	196.	218.	232.	249.	254.	264.
74792-12	117.	145.	166.	191.	206.	222.	229.	238.
74807-08	134.	160.	185.	196.	215.	219.	239.	245.
74811-13	138.	166.	180.	204.	215.	227.	231.	239.
74813-12	121.	150.	174.	193.	199.	213.	222.	232.
74817-13	129.	168.	202.	224.	243.	259.	273.	283.
74822-08	151.	161.	188.	208.	218.	220.	237.	245.
74827-11	104.	129.	146.	169.	180.	199.	208.	216.
74832-07	122.	148.	167.	185.	197.	209.	214.	225.
74833-11	145.	162.	183.	213.	226.	234.	251.	247.
74836-12	170.	197.	219.	237.	266.	285.	293.	295.
74836-11	155.	186.	212.	235.	253.	261.	276.	281.
74853-11	128.	154.	179.	203.	219.	236.	242.	255.
74853-12	147.	178.	212.	231.	253.	253.	274.	287.
74857-14	139.	163.	192.	192.	236.	254.	272.	282.
74857-09	140.	160.	190.	205.	228.	238.	262.	273.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM							
	134	141	148	155	162	169	176	183
ANIMAL								
74860-08	138.	169.	197.	222.	232.	260.	268.	283.
74862-13	125.	156.	178.	209.	205.	213.	232.	245.
74866-16	137.	162.	182.	197.	221.	236.	252.	274.
74870-03	160.	198.	239.	254.	285.	310.	319.	325.
MEAN	135.	163.	188.	207.	225.	239.	252.	260.
S.D.	15.2	16.1	19.8	19.7	24.4	26.5	26.5	26.5
N	30	30	30	30	30	30	30	30

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TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:				0 PPM		232	239
	190	197	204	211	218	225		
ANIMAL								
74737-14	312.	312.	321.	318.	309.	325.	316.	336.
74737-10	278.	286.	283.	NA	NA	NA	NA	NA
74740-07	276.	288.	292.	293.	NA	NA	NA	317.
74757-11	269.	281.	285.	NA	NA	NA	NA	305.
74759-09	235.	242.	237.	NA	NA	NA	NA	NA
74764-10	305.	316.	318.	NA	NA	NA	NA	NA
74767-16	272.	262.	281.	NA	NA	NA	NA	NA
74767-10	293.	292.	300.	NA	NA	NA	NA	NA
74772-09	278.	277.	275.	NA	NA	NA	NA	NA
74773-15	257.	262.	262.	261.	NA	NA	NA	NA
74773-08	277.	281.	290.	NA	NA	NA	NA	NA
74774-15	331.	331.	333.	NA	NA	NA	NA	361.
74789-10	257.	265.	263.	NA	NA	NA	NA	NA
74789-09	261.	267.	268.	NA	NA	NA	NA	NA
74804-11	258.	253.	266.	270.	NA	NA	NA	NA
74804-08	249.	261.	267.	NA	NA	NA	NA	NA
74808-13	286.	295.	287.	NA	NA	NA	NA	NA
74808-11	265.	267.	261.	NA	NA	NA	NA	NA
74810-16	259.	268.	274.	NA	NA	NA	NA	NA
74826-11	263.	277.	288.	NA	NA	NA	298.	309.
74826-08	258.	268.	277.	NA	NA	NA	NA	NA
74829-11	278.	291.	296.	NA	NA	NA	NA	NA
74840-03	297.	304.	311.	308.	NA	NA	NA	NA
74841-12	231.	233.	237.	NA	NA	NA	NA	NA
74844-05	268.	282.	286.	NA	NA	NA	303.	319.
74844-07	242.	248.	250.	258.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 10

DAY	FEMALE GROUP:				0 PPM		232	239
	190	197	204	211	218	225		
ANIMAL								
74845-07	252.	261.	268.	NA	NA	NA	NA	NA
74854-08	272.	260.	268.	NA	NA	NA	NA	308.
74864-15	241.	243.	249.	243.	NA	NA	NA	262.
74867-07	313.	306.	326.	NA	NA	NA	NA	NA
MEAN	271.	276.	281.	279.	309.	325.	306.	315.
S.D.	23.8	23.3	24.6	28.0	0.0	0.0	9.3	28.2
N	30	30	30	7	1	1	3	8

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 11

DAY	190	197	204	FEMALE GROUP:		500 PPM	232	239
				211	218	225		
ANIMAL								
74742-18	195.	206.	212.	NA	NA	NA	NA	NA
74746-10	296.	304.	314.	NA	NA	NA	NA	NA
74753-12	278.	286.	288.	NA	NA	NA	NA	NA
74761-12	234.	243.	244.	NA	NA	NA	NA	NA
74762-11	254.	258.	263.	NA	NA	NA	NA	NA
74782-09	220.	229.	230.	NA	NA	NA	NA	NA
74785-08	252.	251.	257.	NA	NA	NA	NA	NA
74790-15	228.	229.	229.	NA	NA	NA	NA	NA
74790-14	264.	267.	274.	NA	NA	NA	NA	NA
74796-15	332.	338.	352.	NA	NA	NA	NA	NA
74797-12	245.	240.	246.	243.	NA	NA	NA	261.
74798-13	256.	270.	256.	NA	NA	NA	NA	NA
74798-12	282.	287.	290.	NA	NA	NA	NA	NA
74802-10	263.	265.	271.	277.	NA	NA	NA	NA
74809-08	249.	248.	245.	NA	NA	NA	NA	NA
74816-12	267.	269.	278.	NA	NA	NA	NA	NA
74819-10	262.	261.	266.	NA	NA	NA	NA	NA
74823-12	274.	274.	284.	NA	NA	NA	NA	NA
74824-11	258.	267.	274.	285.	290.	285.	298.	298.
74835-11	190.	190.	195.	NA	NA	NA	NA	227.
74835-07	262.	262.	268.	NA	NA	NA	NA	NA
74838-11	249.	262.	265.	NA	NA	NA	NA	NA
74839-18	265.	264.	276.	277.	NA	NA	NA	300.
74846-07	251.	254.	262.	NA	NA	NA	NA	NA
74856-15	236.	239.	241.	NA	NA	NA	NA	NA
74859-09	249.	262.	267.	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 12

DAY	FEMALE GROUP:				500 PPM				
	190	197	204	211	218	225	232	239	
ANIMAL									
74859-12	286.	289.	290.	NA	NA	NA	NA	NA	
74861-05	232.	237.	239.	NA	NA	NA	NA	NA	
74863-10	299.	301.	308.	315.	315.	319.	322.	325.	
74869-04	285.	277.	293.	NA	NA	NA	NA	NA	
MEAN	257.	261.	266.	279.	303.	302.	310.	282.	
S.D.	29.2	29.0	31.1	25.7	17.7	24.0	17.0	38.4	
N	30	30	30	5	2	2	2	5	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

DAY	FEMALE GROUP:				1000 PPM		232	239
	190	197	204	211	218	225		
ANIMAL								
74738-07	276.	277.	279.	NA	NA	NA	NA	NA
74738-12	268.	270.	275.	NA	NA	NA	NA	NA
74739-08	301.	287.	302.	297.	NA	NA	NA	315.
74743-08	275.	274.	286.	300.	324.	364.	NA	NA
74744-16	249.	260.	262.	250.	266.	265.	264.	280.
74748-11	229.	242.	247.	NA	NA	NA	NA	NA
74752-10	282.	297.	302.	NA	NA	NA	NA	NA
74766-13	237.	237.	249.	244.	253.	254.	251.	260.
74780-04	273.	268.	285.	301.	NA	NA	NA	NA
74791-13	218.	195.	224.	NA	NA	NA	NA	NA
74793-14	254.	261.	267.	NA	NA	NA	NA	NA
74795-09	302.	301.	306.	NA	NA	NA	NA	340.
74799-14	227.	231.	227.	NA	NA	NA	NA	NA
74801-14	304.	340.	325.	332.	345.	319.	327.	324.
74806-11	256.	258.	265.	NA	NA	NA	NA	NA
74820-12	244.	251.	258.	NA	NA	NA	NA	NA
74821-09	267.	281.	290.	NA	NA	NA	NA	NA
74821-07	251.	253.	260.	NA	NA	NA	NA	NA
74830-11	269.	276.	284.	NA	NA	NA	311.	310.
74831-12	261.	273.	280.	NA	NA	NA	NA	NA
74834-07	241.	234.	247.	NA	NA	NA	NA	NA
74847-09	290.	295.	299.	NA	NA	NA	NA	NA
74848-04	282.	289.	288.	NA	NA	NA	NA	NA
74849-07	234.	248.	245.	NA	NA	NA	NA	NA
74850-11	231.	232.	240.	NA	NA	NA	NA	NA
74850-14	252.	253.	263.	267.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 14

DAY	190	197	204	FEMALE GROUP:		1000 PPM	232	239
				211	218	225		
ANIMAL								
74855-11	258.	270.	274.	NA	NA	NA	NA	NA
74858-14	280.	276.	286.	NA	NA	NA	NA	317.
74868-20	249.	254.	250.	NA	NA	NA	NA	NA
74871-09	261.	265.	271.	276.	NA	NA	NA	NA
MEAN	261.	265.	271.	283.	297.	301.	288.	307.
S.D.	23.0	27.0	24.1	29.6	44.5	51.0	36.5	27.3
N	30	30	30	8	4	4	4	7

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 15

DAY	FEMALE GROUP:							
	190	197	204	211	218	2500 PPM 225	232	239
ANIMAL								
74747-17	288.	298.	290.	306.	313.	300.	305.	327.
74751-13	252.	265.	273.	NA	NA	NA	NA	NA
74754-15	260.	266.	271.	NA	NA	NA	NA	NA
74755-01	211.	222.	228.	228.	221.	230.	231.	242.
74768-11	292.	296.	299.	NA	NA	NA	NA	NA
74769-08	262.	270.	267.	NA	NA	NA	NA	NA
74770-11	292.	300.	294.	NA	NA	NA	NA	NA
74770-10	305.	324.	325.	NA	NA	NA	NA	NA
74786-10	241.	248.	254.	NA	NA	NA	NA	NA
74787-10	247.	251.	260.	259.	257.	253.	265.	273.
74792-11	280.	281.	283.	287.	288.	296.	300.	310.
74792-12	248.	253.	255.	NA	NA	NA	NA	NA
74807-08	262.	263.	270.	NA	NA	NA	NA	NA
74811-13	251.	253.	255.	NA	NA	NA	NA	NA
74813-12	230.	243.	243.	NA	NA	NA	260.	260.
74817-13	298.	309.	308.	NA	NA	NA	NA	NA
74822-08	256.	250.	260.	NA	NA	NA	NA	NA
74827-11	226.	226.	230.	NA	NA	NA	NA	NA
74832-07	229.	229.	236.	245.	NA	NA	NA	NA
74833-11	265.	262.	276.	NA	NA	NA	NA	NA
74836-12	314.	325.	327.	NA	NA	NA	NA	NA
74836-11	296.	295.	311.	NA	NA	NA	NA	NA
74853-11	254.	263.	274.	NA	NA	NA	NA	NA
74853-12	286.	287.	292.	NA	NA	NA	NA	NA
74857-14	281.	295.	299.	324.	318.	292.	311.	317.
74857-09	294.	303.	288.	297.	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 16

DAY	190	197	204	FEMALE GROUP:		2500 PPM		232	239
				211	218	225			
ANIMAL									
74860-08	282.	288.	295.	NA	NA	NA	NA	NA	NA
74862-13	253.	256.	262.	NA	NA	NA	NA	NA	NA
74866-16	276.	287.	310.	NA	NA	NA	NA	NA	NA
74870-03	339.	352.	354.	NA	NA	NA	NA	NA	NA
MEAN	269.	275.	280.	278.	279.	274.	279.	288.	
S.D.	28.8	31.0	29.8	34.9	40.6	31.1	31.6	34.6	
N	30	30	30	7	5	5	6	6	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 17

DAY	246	253	260	266	FEMALE GROUP:	0 PPM	
ANIMAL							
74737-14	341.	341.	355.	358.	SCHEDULED	EUTH DAY	266
74737-10	NA	307.	304.	317.	SCHEDULED	EUTH DAY	266
74740-07	315.	324.	328.	344.	SCHEDULED	EUTH DAY	267
74757-11	303.	309.	317.	316.	SCHEDULED	EUTH DAY	268
74759-09	NA	285.	271.	283.	SCHEDULED	EUTH DAY	268
74764-10	NA	309.	319.	351.	SCHEDULED	EUTH DAY	268
74767-16	NA	307.	296.	312.	SCHEDULED	EUTH DAY	269
74767-10	NA	325.	336.	342.	SCHEDULED	EUTH DAY	267
74772-09	NA	325.	331.	335.	SCHEDULED	EUTH DAY	269
74773-15	NA	NA	301.	301.	SCHEDULED	EUTH DAY	269
74773-08	NA	315.	332.	331.	SCHEDULED	EUTH DAY	266
74774-15	365.	364.	377.	388.	SCHEDULED	EUTH DAY	268
74789-10	NA	328.	306.	313.	SCHEDULED	EUTH DAY	266
74789-09	NA	302.	298.	306.	SCHEDULED	EUTH DAY	267
74804-11	NA	NA	NA	299.	SCHEDULED	EUTH DAY	268
74804-08	NA	285.	304.	306.	SCHEDULED	EUTH DAY	268
74808-13	NA	353.	326.	335.	SCHEDULED	EUTH DAY	267
74808-11	NA	339.	296.	305.	SCHEDULED	EUTH DAY	266
74810-16	NA	304.	301.	291.	SCHEDULED	EUTH DAY	269
74826-11	312.	318.	320.	333.	SCHEDULED	EUTH DAY	266
74826-08	NA	317.	328.	321.	SCHEDULED	EUTH DAY	266
74829-11	NA	317.	321.	322.	SCHEDULED	EUTH DAY	267
74840-03	NA	NA	340.	345.	SCHEDULED	EUTH DAY	268
74841-12	NA	288.	277.	275.	SCHEDULED	EUTH DAY	266
74844-05	322.	331.	322.	334.	SCHEDULED	EUTH DAY	269
74844-07	NA	NA	284.	293.	SCHEDULED	EUTH DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 18

DAY	246	253	260	266	FEMALE GROUP:	0 PPM
ANIMAL						
74845-07	NA	290.	298.	295.	SCHEDULED EUTH DAY	268
74854-08	325.	323.	327.	338.	SCHEDULED EUTH DAY	269
74864-15	274.	277.	270.	278.	SCHEDULED EUTH DAY	267
74867-07	NA	372.	370.	385.	SCHEDULED EUTH DAY	267
MEAN	320.	318.	316.	322.		
S.D.	26.7	23.7	26.2	28.2		
N	8	26	29	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 19

		FEMALE GROUP: 500 PPM					
DAY	246	253	260	266			
-----							
ANIMAL							
74742-18	NA	225.	235.	237.	SCHEDULED EUTH DAY	268	
74746-10	NA	328.	344.	352.	SCHEDULED EUTH DAY	267	
74753-12	NA	332.	327.	330.	SCHEDULED EUTH DAY	269	
74761-12	NA	254.	257.	272.	SCHEDULED EUTH DAY	268	
74762-11	NA	282.	276.	298.	SCHEDULED EUTH DAY	267	
74782-09	NA	243.	251.	257.	SCHEDULED EUTH DAY	266	
74785-08	NA	271.	285.	296.	SCHEDULED EUTH DAY	269	
74790-15	NA	NA	273.	282.	SCHEDULED EUTH DAY	267	
74790-14	NA	313.	294.	309.	SCHEDULED EUTH DAY	269	
74796-15	NA	374.	380.	380.	SCHEDULED EUTH DAY	267	
74797-12	267.	263.	271.	272.	SCHEDULED EUTH DAY	266	
74798-13	NA	300.	295.	305.	SCHEDULED EUTH DAY	268	
74798-12	NA	343.	330.	328.	SCHEDULED EUTH DAY	267	
74802-10	NA	NA	293.	299.	SCHEDULED EUTH DAY	267	
74809-08	NA	298.	287.	288.	SCHEDULED EUTH DAY	269	
74816-12	NA	NA	295.	305.	SCHEDULED EUTH DAY	266	
74819-10	NA	321.	306.	301.	SCHEDULED EUTH DAY	268	
74823-12	NA	320.	311.	310.	SCHEDULED EUTH DAY	266	
74824-11	298.	305.	309.	310.	SCHEDULED EUTH DAY	268	
74835-11	225.	219.	226.	223.	SCHEDULED EUTH DAY	269	
74835-07	NA	296.	302.	300.	SCHEDULED EUTH DAY	268	
74838-11	NA	286.	305.	307.	SCHEDULED EUTH DAY	269	
74839-18	310.	307.	305.	308.	SCHEDULED EUTH DAY	266	
74846-07	NA	NA	276.	295.	SCHEDULED EUTH DAY	269	
74856-15	NA	289.	293.	295.	SCHEDULED EUTH DAY	266	
74859-09	NA	311.	317.	312.	SCHEDULED EUTH DAY	267	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 20

DAY	246	253	260	266	FEMALE GROUP:	500 PPM
ANIMAL						
74859-12	NA	337.	331.	355.	SCHEDULED EUTH DAY	267
74861-05	277.	278.	279.	273.	SCHEDULED EUTH DAY	268
74863-10	334.	347.	342.	351.	SCHEDULED EUTH DAY	266
74869-04	NA	349.	320.	335.	SCHEDULED EUTH DAY	269
MEAN	285.	300.	297.	303.		
S.D.	37.9	38.6	32.8	33.5		
N	6	26	30	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS [G]

PAGE 21

DAY	FEMALE GROUP:				1000 PPM		
	246	253	260	266			
ANIMAL							
74738-07	NA	309.	317.	320.	SCHEDULED	EUTH DAY	266
74738-12	NA	288.	297.	307.	SCHEDULED	EUTH DAY	266
74739-08	322.	330.	336.	336.	SCHEDULED	EUTH DAY	267
74743-08	NA	321.	311.	323.	SCHEDULED	EUTH DAY	266
74744-16	284.	283.	293.	295.	SCHEDULED	EUTH DAY	269
74748-11	NA	NA	290.	292.	SCHEDULED	EUTH DAY	268
74752-10	NA	317.	328.	338.	SCHEDULED	EUTH DAY	269
74766-13	258.	270.	273.	269.	SCHEDULED	EUTH DAY	268
74780-04	NA	NA	330.	335.	SCHEDULED	EUTH DAY	266
74791-13	NA	262.	261.	264.	SCHEDULED	EUTH DAY	267
74793-14	NA	292.	295.	304.	SCHEDULED	EUTH DAY	269
74795-09	351.	339.	345.	336.	SCHEDULED	EUTH DAY	267
74799-14	NA	245.	263.	270.	SCHEDULED	EUTH DAY	268
74801-14	332.	346.	358.	364.	SCHEDULED	EUTH DAY	266
74806-11	NA	297.	294.	300.	SCHEDULED	EUTH DAY	268
74820-12	NA	277.	285.	292.	SCHEDULED	EUTH DAY	267
74821-09	NA	317.	324.	343.	SCHEDULED	EUTH DAY	268
74821-07	NA	301.	284.	287.	SCHEDULED	EUTH DAY	266
74830-11	308.	314.	314.	309.	SCHEDULED	EUTH DAY	266
74831-12	NA	318.	299.	307.	SCHEDULED	EUTH DAY	267
74834-07	NA	328.	287.	290.	SCHEDULED	EUTH DAY	268
74847-09	NA	329.	322.	329.	SCHEDULED	EUTH DAY	269
74848-04	NA	327.	331.	332.	SCHEDULED	EUTH DAY	268
74849-07	NA	294.	290.	294.	SCHEDULED	EUTH DAY	268
74850-11	NA	291.	258.	277.	SCHEDULED	EUTH DAY	269
74850-14	NA	NA	287.	297.	SCHEDULED	EUTH DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 22

DAY	246	253	260	266	FEMALE GROUP:	1000 PPM
ANIMAL						
74855-11	NA	304.	311.	316.	SCHEDULED EUTH DAY	267
74858-14	324.	332.	326.	337.	SCHEDULED EUTH DAY	269
74868-20	NA	280.	301.	302.	SCHEDULED EUTH DAY	267
74871-09	NA	NA	314.	311.	SCHEDULED EUTH DAY	266
MEAN	311.	304.	304.	309.		
S.D.	31.3	25.3	24.9	24.6		
N	7	26	30	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 23

		FEMALE GROUP: 2500 PPM					
DAY	246	253	260	266			
ANIMAL							
74747-17	322.	321.	332.	342.	SCHEDULED EUTH DAY	268	
74751-13	NA	294.	302.	315.	SCHEDULED EUTH DAY	267	
74754-15	NA	306.	309.	310.	SCHEDULED EUTH DAY	267	
74755-01	236.	239.	249.	246.	SCHEDULED EUTH DAY	266	
74768-11	NA	337.	339.	349.	SCHEDULED EUTH DAY	268	
74769-08	NA	296.	310.	314.	SCHEDULED EUTH DAY	267	
74770-11	NA	336.	333.	355.	SCHEDULED EUTH DAY	267	
74770-10	NA	341.	354.	362.	SCHEDULED EUTH DAY	268	
74786-10	NA	307.	294.	302.	SCHEDULED EUTH DAY	269	
74787-10	274.	270.	279.	284.	SCHEDULED EUTH DAY	267	
74792-11	316.	320.	320.	321.	SCHEDULED EUTH DAY	266	
74792-12	NA	274.	278.	286.	SCHEDULED EUTH DAY	268	
74807-08	NA	300.	301.	309.	SCHEDULED EUTH DAY	266	
74811-13	NA	286.	297.	292.	SCHEDULED EUTH DAY	267	
74813-12	268.	269.	278.	282.	SCHEDULED EUTH DAY	269	
74817-13	NA	362.	367.	359.	SCHEDULED EUTH DAY	266	
74822-08	NA	315.	312.	305.	SCHEDULED EUTH DAY	266	
74827-11	NA	271.	270.	273.	SCHEDULED EUTH DAY	269	
74832-07	NA	NA	257.	259.	SCHEDULED EUTH DAY	267	
74833-11	NA	299.	313.	305.	SCHEDULED EUTH DAY	267	
74836-12	NA	334.	369.	378.	SCHEDULED EUTH DAY	269	
74836-11	NA	340.	338.	340.	SCHEDULED EUTH DAY	269	
74853-11	NA	293.	307.	313.	SCHEDULED EUTH DAY	269	
74853-12	NA	351.	330.	340.	SCHEDULED EUTH DAY	269	
74857-14	329.	324.	331.	336.	SCHEDULED EUTH DAY	268	
74857-09	NA	NA	325.	315.	SCHEDULED EUTH DAY	266	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 191 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS [G]

PAGE 24

DAY	246	253	260	266	FEMALE GROUP:	2500 PPM
ANIMAL						
74860-08	NA	327.	333.	334.	SCHEDULED EUTH DAY	268
74862-13	NA	303.	309.	307.	SCHEDULED EUTH DAY	266
74866-16	NA	322.	335.	347.	SCHEDULED EUTH DAY	268
74870-03	NA	NA	378.	398.	SCHEDULED EUTH DAY	269
MEAN	291.	309.	315.	319.		
S.D.	37.1	29.0	31.8	34.6		
N	6	27	30	30		

NA = NOT APPLICABLE

PBFTSv4.25  
09/05/2002

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-03	68.	65.	45.	42.	18.	28.	22.	23.
74740-02	48.	50.	37.	29.	29.	21.	18.	21.
74757-08	68.	65.	63.	39.	31.	23.	20.	23.
74757-05	61.	63.	64.	43.	35.	30.	26.	29.
74759-02	54.	55.	49.	31.	17.	20.	23.	14.
74759-05	54.	56.	38.	31.	20.	28.	17.	17.
74764-02	57.	57.	53.	41.	32.	28.	24.	15.
74767-07	56.	63.	51.	29.	28.	21.	14.	17.
74772-02	58.	56.	52.	41.	35.	27.	31.	26.
74772-08	62.	63.	50.	45.	29.	27.	30.	18.
74773-02	63.	52.	43.	30.	18.	31.	18.	15.
74774-03	66.	65.	53.	46.	43.	29.	31.	14.
74789-04	51.	57.	58.	44.	29.	21.	25.	20.
74804-04	46.	49.	50.	42.	34.	30.	23.	26.
74808-01	63.	54.	37.	32.	32.	22.	18.	29.
74810-07	55.	61.	61.	44.	35.	22.	23.	21.
74810-02	57.	63.	61.	41.	37.	28.	24.	22.
74826-05	63.	58.	57.	38.	28.	31.	27.	16.
74829-05	51.	49.	40.	30.	25.	24.	20.	15.
74840-02	57.	55.	47.	30.	24.	22.	24.	18.
74841-02	57.	63.	52.	41.	30.	22.	23.	21.
74841-06	52.	52.	53.	42.	31.	25.	23.	24.
74844-04	56.	51.	60.	37.	25.	10.	31.	22.
74845-01	59.	59.	54.	47.	27.	18.	25.	19.
74845-03	47.	44.	55.	36.	30.	31.	23.	19.
74854-06	53.	55.	56.	31.	35.	22.	32.	22.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 2

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	0 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74854-02	66.	56.	59.	48.	46.	31.	26.	17.
74864-06	62.	59.	58.	37.	25.	24.	19.	19.
74867-03	69.	73.	48.	46.	33.	24.	26.	19.
74867-01	71.	63.	52.	49.	40.	42.	27.	34.
MEAN	58.	58.	52.	39.	30.	25.	24.	21.
S.D.	6.7	6.2	7.5	6.4	6.9	5.7	4.6	4.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-03	54.	47.	44.	28.	27.	16.	16.	14.
74746-06	35.	42.	54.	37.	35.	22.	21.	20.
74753-04	56.	55.	48.	35.	36.	19.	28.	19.
74753-02	52.	53.	41.	35.	25.	24.	22.	8.
74761-09	33.	39.	41.	44.	34.	23.	19.	19.
74762-04	52.	45.	42.	33.	21.	25.	18.	15.
74790-09	55.	59.	52.	38.	32.	18.	18.	23.
74782-04	48.	41.	42.	43.	35.	23.	25.	17.
74785-04	53.	56.	45.	32.	26.	26.	15.	14.
74790-02	50.	53.	47.	33.	33.	22.	18.	21.
74796-07	47.	47.	38.	36.	36.	21.	22.	14.
74797-09	59.	60.	48.	38.	33.	31.	23.	26.
74798-04	48.	54.	49.	31.	26.	23.	22.	24.
74802-05	57.	55.	40.	41.	34.	20.	18.	16.
74802-08	55.	43.	32.	30.	18.	12.	18.	12.
74809-09	59.	54.	55.	50.	30.	30.	21.	15.
74816-05	49.	44.	35.	36.	30.	19.	19.	24.
74819-03	62.	55.	48.	34.	26.	30.	15.	28.
74823-01	62.	52.	37.	20.	26.	12.	10.	20.
74824-05	45.	51.	49.	48.	29.	24.	25.	22.
74835-03	66.	59.	48.	35.	29.	26.	13.	21.
74838-06	56.	48.	37.	20.	21.	20.	17.	19.
74839-02	57.	51.	45.	34.	26.	13.	14.	23.
74846-03	71.	53.	49.	27.	34.	23.	26.	31.
74856-06	47.	51.	41.	30.	24.	16.	9.	14.
74859-06	58.	58.	55.	40.	29.	19.	12.	8.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74861-02	45.	49.	47.	43.	29.	19.	19.	17.
74863-05	61.	63.	46.	41.	33.	21.	17.	20.
74863-02	60.	60.	56.	39.	32.	19.	11.	24.
74869-02	58.	45.	49.	29.	28.	17.	14.	15.
MEAN	54.	51.	45.	35.	29.	21.	18.	19.
S.D.	8.2	6.3	6.1	7.0	4.7	4.9	4.8	5.4
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 5

DAY	MALE GROUP: 1000 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-02	54.	55.	47.	40.	32.	19.	15.	16.
74739-04	58.	53.	40.	27.	28.	18.	16.	6.
74743-04	52.	48.	37.	21.	29.	22.	13.	18.
74744-02	41.	33.	35.	37.	28.	16.	17.	9.
74748-05	32.	37.	44.	47.	34.	23.	22.	15.
74748-02	47.	42.	40.	32.	29.	15.	24.	17.
74752-05	49.	47.	41.	34.	35.	19.	21.	13.
74766-02	60.	16.	55.	44.	22.	26.	11.	10.
74780-03	58.	58.	50.	46.	45.	28.	23.	24.
74791-05	48.	54.	34.	30.	30.	10.	20.	17.
74791-02	51.	55.	45.	40.	29.	25.	25.	14.
74793-05	58.	51.	40.	27.	30.	15.	20.	19.
74795-06	59.	60.	49.	33.	24.	26.	20.	21.
74799-03	56.	67.	58.	50.	47.	27.	24.	16.
74801-10	61.	61.	45.	31.	21.	15.	21.	3.
74806-06	56.	58.	43.	27.	28.	17.	12.	17.
74806-03	57.	53.	45.	28.	36.	26.	19.	23.
74820-02	48.	55.	45.	33.	33.	23.	22.	20.
74821-02	45.	57.	49.	34.	25.	27.	23.	19.
74830-02	64.	60.	46.	32.	31.	23.	16.	12.
74831-02	61.	52.	51.	36.	5.	7.	7.	54.
74834-04	64.	59.	40.	41.	26.	32.	26.	22.
74847-03	62.	60.	47.	36.	28.	27.	15.	30.
74848-03	68.	63.	53.	38.	40.	14.	32.	21.
74849-03	58.	61.	41.	41.	29.	29.	20.	25.
74850-05	52.	56.	38.	22.	23.	20.	14.	25.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	1000 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-08	56.	42.	41.	35.	21.	25.	22.	21.
74858-04	65.	61.	37.	35.	35.	25.	11.	15.
74868-02	46.	50.	47.	43.	34.	28.	20.	17.
74871-06	56.	54.	40.	29.	27.	12.	17.	8.
MEAN	55.	53.	44.	35.	29.	21.	19.	18.
S.D.	7.8	10.3	5.8	7.2	7.8	6.3	5.3	9.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-04	54.	58.	44.	34.	31.	13.	14.	16.
74747-03	61.	64.	45.	42.	28.	29.	24.	23.
74751-05	63.	56.	47.	36.	33.	20.	17.	21.
74751-02	59.	53.	50.	41.	32.	27.	17.	22.
74754-09	47.	55.	40.	25.	26.	21.	10.	20.
74755-05	63.	53.	52.	37.	22.	20.	22.	20.
74768-02	62.	56.	42.	49.	28.	34.	23.	24.
74769-07	50.	54.	51.	48.	31.	24.	21.	23.
74770-06	69.	63.	56.	32.	44.	-3.	47.	18.
74786-05	56.	60.	50.	45.	29.	42.	34.	32.
74786-07	59.	58.	43.	33.	23.	11.	19.	11.
74787-06	50.	49.	37.	32.	24.	21.	15.	20.
74792-03	56.	49.	45.	36.	35.	24.	19.	16.
74807-05	42.	42.	45.	36.	25.	24.	16.	14.
74811-01	64.	61.	51.	47.	37.	28.	17.	30.
74813-08	58.	53.	52.	39.	27.	25.	13.	27.
74817-04	60.	57.	55.	38.	31.	16.	3.	21.
74822-15	55.	49.	28.	28.	20.	7.	14.	13.
74822-14	66.	54.	35.	25.	17.	18.	12.	19.
74827-03	50.	49.	37.	24.	16.	9.	6.	18.
74832-03	61.	63.	48.	37.	32.	22.	24.	23.
74833-02	50.	48.	45.	34.	31.	25.	23.	11.
74836-08	58.	55.	46.	38.	35.	25.	32.	26.
74853-06	61.	55.	53.	43.	30.	14.	17.	16.
74857-10	50.	47.	51.	33.	37.	33.	27.	19.
74860-03	62.	70.	41.	39.	26.	19.	28.	17.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 8

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-02	51.	58.	41.	39.	32.	21.	29.	19.
74862-08	54.	59.	42.	41.	26.	25.	16.	22.
74866-01	57.	60.	51.	41.	36.	19.	28.	20.
74870-06	54.	63.	44.	47.	34.	32.	23.	24.
MEAN	57.	56.	46.	37.	29.	22.	20.	20.
S.D.	6.2	6.0	6.4	6.7	6.2	8.9	8.8	5.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 9

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-03	17.	12.	5.	22.	5.	-13.	16.	19.
74740-02	14.	7.	4.	5.	12.	9.	9.	11.
74757-08	23.	12.	1.	21.	15.	8.	5.	8.
74757-05	3.	16.	2.	28.	2.	6.	9.	5.
74759-02	13.	17.	9.	4.	19.	1.	11.	14.
74759-05	11.	9.	4.	16.	3.	13.	9.	13.
74764-02	16.	8.	11.	7.	16.	7.	3.	5.
74767-07	11.	8.	19.	1.	6.	6.	13.	-4.
74772-02	11.	17.	8.	20.	12.	12.	13.	17.
74772-08	20.	16.	6.	14.	7.	8.	9.	10.
74773-02	14.	9.	12.	10.	-4.	21.	-12.	22.
74774-03	22.	21.	19.	12.	9.	5.	17.	10.
74789-04	14.	7.	11.	12.	12.	3.	7.	11.
74804-04	14.	15.	2.	11.	22.	7.	10.	3.
74808-01	10.	16.	5.	22.	11.	9.	8.	15.
74810-07	15.	9.	4.	7.	9.	-2.	11.	-2.
74810-02	17.	7.	2.	17.	13.	9.	-8.	13.
74826-05	19.	3.	22.	5.	9.	-10.	-2.	3.
74829-05	13.	9.	-3.	8.	6.	12.	7.	8.
74840-02	14.	9.	8.	7.	14.	-6.	13.	18.
74841-02	11.	16.	-2.	18.	-2.	11.	8.	12.
74841-06	10.	14.	11.	13.	12.	11.	1.	17.
74844-04	14.	8.	3.	10.	2.	2.	12.	13.
74845-01	5.	10.	9.	19.	16.	10.	12.	9.
74845-03	12.	22.	0.	16.	10.	9.	4.	11.
74854-06	8.	9.	-2.	11.	6.	-5.	28.	13.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74854-02	17.	15.	10.	20.	14.	6.	5.	-1.
74864-06	18.	10.	20.	17.	15.	-2.	11.	21.
74867-03	14.	20.	9.	13.	13.	17.	12.	19.
74867-01	6.	26.	-12.	0.	21.	7.	-6.	8.
MEAN	14.	13.	7.	13.	10.	6.	8.	11.
S.D.	4.6	5.4	7.4	6.8	6.3	7.5	7.8	6.6
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 11

DAY	MALE GROUP:					500 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74742-03	12.	9.	4.	5.	9.	5.	8.	11.	
74746-06	15.	5.	12.	15.	7.	-2.	0.	10.	
74753-04	13.	14.	14.	8.	15.	6.	5.	8.	
74753-02	12.	9.	18.	13.	2.	3.	8.	14.	
74761-09	15.	13.	6.	19.	12.	2.	5.	6.	
74762-04	5.	8.	16.	4.	8.	11.	5.	2.	
74790-09	9.	17.	-50.	55.	27.	8.	5.	11.	
74782-04	10.	9.	3.	6.	0.	9.	5.	12.	
74785-04	16.	7.	10.	4.	18.	11.	2.	13.	
74790-02	18.	18.	14.	22.	13.	12.	14.	24.	
74796-07	19.	8.	2.	18.	12.	8.	4.	9.	
74797-09	10.	14.	16.	6.	10.	14.	2.	-2.	
74798-04	13.	5.	21.	6.	18.	0.	-2.	11.	
74802-05	18.	5.	15.	3.	5.	13.	5.	-6.	
74802-08	12.	2.	6.	15.	11.	-6.	9.	13.	
74809-09	4.	15.	15.	14.	4.	-5.	7.	1.	
74816-05	23.	-3.	19.	11.	15.	5.	6.	4.	
74819-03	15.	15.	9.	19.	10.	-8.	16.	3.	
74823-01	10.	16.	7.	10.	6.	0.	8.	13.	
74824-05	14.	13.	10.	14.	15.	3.	8.	6.	
74835-03	8.	15.	4.	11.	12.	3.	8.	13.	
74838-06	8.	7.	0.	7.	9.	-1.	15.	13.	
74839-02	14.	7.	7.	14.	14.	1.	4.	11.	
74846-03	5.	10.	13.	10.	20.	0.	2.	5.	
74856-06	16.	10.	14.	6.	23.	-1.	-2.	4.	
74859-06	11.	1.	12.	4.	3.	14.	2.	8.	

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74861-02	11.	10.	12.	9.	9.	-7.	7.	14.
74863-05	12.	10.	19.	14.	10.	-7.	3.	9.
74863-02	14.	12.	14.	-4.	16.	10.	5.	17.
74869-02	13.	14.	10.	10.	7.	4.	8.	8.
MEAN	13.	10.	9.	12.	11.	4.	6.	9.
S.D.	4.3	5.0	12.4	10.0	6.1	6.6	4.3	5.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 192 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	MALE GROUP:		1000 PPM					
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74738-02	13.	9.	3.	15.	9.	10.	3.	5.
74739-04	13.	14.	2.	9.	6.	9.	11.	19.
74743-04	10.	13.	13.	19.	7.	14.	-3.	12.
74744-02	14.	6.	11.	10.	14.	10.	9.	5.
74748-05	15.	7.	12.	16.	15.	3.	1.	13.
74748-02	10.	7.	5.	9.	15.	-9.	13.	4.
74752-05	12.	14.	9.	22.	9.	8.	12.	8.
74766-02	26.	-2.	20.	14.	3.	7.	7.	6.
74780-03	9.	14.	11.	17.	18.	5.	4.	9.
74791-05	8.	10.	6.	6.	16.	5.	11.	8.
74791-02	16.	14.	10.	11.	11.	-1.	16.	13.
74793-05	9.	4.	16.	6.	11.	1.	3.	17.
74795-06	12.	14.	5.	15.	20.	5.	4.	17.
74799-03	27.	15.	10.	16.	16.	-1.	16.	10.
74801-10	-1.	18.	16.	21.	3.	-20.	18.	13.
74806-06	12.	15.	12.	13.	13.	8.	16.	11.
74806-03	9.	-2.	10.	24.	13.	5.	6.	11.
74820-02	16.	13.	9.	21.	0.	20.	6.	9.
74821-02	18.	15.	9.	1.	24.	-4.	20.	11.
74830-02	9.	13.	14.	9.	13.	3.	9.	21.
74831-02	6.	26.	-2.	10.	19.	-6.	0.	10.
74834-04	18.	18.	9.	22.	16.	5.	11.	-8.
74847-03	15.	-3.	12.	7.	2.	2.	13.	12.
74848-03	21.	18.	4.	12.	24.	-5.	11.	20.
74849-03	12.	18.	17.	18.	-2.	16.	-5.	10.
74850-05	13.	-5.	11.	19.	10.	1.	11.	16.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	1000 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-08	12.	19.	0.	30.	3.	9.	8.	13.
74858-04	14.	14.	0.	12.	11.	-3.	21.	21.
74868-02	7.	16.	5.	8.	7.	-4.	3.	10.
74871-06	23.	8.	7.	16.	4.	4.	4.	3.
MEAN	13.	11.	9.	14.	11.	3.	9.	11.
S.D.	5.9	7.3	5.3	6.4	6.8	7.9	6.5	6.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 15

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-04	23.	29.	-7.	13.	23.	6.	11.	13.
74747-03	17.	13.	-1.	22.	16.	-11.	9.	21.
74751-05	11.	11.	8.	9.	19.	11.	3.	13.
74751-02	16.	9.	7.	21.	15.	1.	9.	10.
74754-09	9.	1.	9.	5.	5.	-4.	7.	18.
74755-05	11.	15.	1.	15.	16.	8.	-1.	15.
74768-02	8.	10.	2.	12.	15.	6.	3.	13.
74769-07	8.	14.	5.	14.	12.	0.	2.	2.
74770-06	36.	6.	-4.	8.	11.	17.	10.	21.
74786-05	16.	19.	12.	5.	21.	10.	24.	-8.
74786-07	13.	8.	10.	7.	15.	0.	3.	2.
74787-06	11.	1.	24.	10.	8.	1.	-17.	-11.
74792-03	20.	16.	13.	11.	9.	16.	5.	5.
74807-05	15.	11.	6.	14.	7.	-7.	7.	11.
74811-01	15.	7.	-3.	20.	10.	10.	9.	10.
74813-08	16.	13.	1.	6.	13.	5.	10.	2.
74817-04	27.	16.	9.	20.	8.	7.	7.	13.
74822-15	1.	-1.	14.	11.	-2.	8.	7.	8.
74822-14	13.	6.	8.	21.	8.	4.	2.	13.
74827-03	-1.	9.	-3.	0.	5.	7.	9.	14.
74832-03	13.	8.	9.	10.	14.	2.	2.	13.
74833-02	17.	11.	13.	9.	10.	-6.	13.	16.
74836-08	22.	11.	7.	14.	13.	12.	10.	7.
74853-06	16.	5.	-2.	10.	6.	0.	12.	3.
74857-10	24.	14.	19.	19.	16.	10.	12.	14.
74860-03	18.	8.	14.	1.	24.	-45.	43.	21.

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 192 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	2500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-02	26.	25.	3.	13.	9.	18.	19.	21.
74862-08	15.	14.	8.	15.	13.	-4.	10.	9.
74866-01	21.	13.	9.	13.	14.	20.	20.	8.
74870-06	28.	21.	10.	17.	4.	13.	17.	7.
MEAN	16.	11.	7.	12.	12.	4.	9.	10.
S.D.	7.8	6.6	7.1	5.8	5.8	12.0	9.8	7.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
ANIMAL					
74737-03	-31.	27.	4.	SCHEDULED EUTH DAY	268
74740-02	0.	11.	0.	SCHEDULED EUTH DAY	269
74757-08	-1.	9.	9.	SCHEDULED EUTH DAY	269
74757-05	-16.	26.	3.	SCHEDULED EUTH DAY	267
74759-02	3.	-5.	7.	SCHEDULED EUTH DAY	267
74759-05	-5.	8.	0.	SCHEDULED EUTH DAY	269
74764-02	8.	-8.	15.	SCHEDULED EUTH DAY	267
74767-07	-6.	11.	4.	SCHEDULED EUTH DAY	266
74772-02	-10.	7.	3.	SCHEDULED EUTH DAY	266
74772-08	4.	1.	2.	SCHEDULED EUTH DAY	266
74773-02	-9.	-19.	-3.	SCHEDULED EUTH DAY	269
74774-03	-12.	16.	4.	SCHEDULED EUTH DAY	266
74789-04	6.	-5.	9.	SCHEDULED EUTH DAY	266
74804-04	8.	14.	-1.	SCHEDULED EUTH DAY	269
74808-01	4.	13.	7.	SCHEDULED EUTH DAY	267
74810-07	-11.	-1.	5.	SCHEDULED EUTH DAY	268
74810-02	-2.	5.	2.	SCHEDULED EUTH DAY	269
74826-05	5.	-6.	4.	SCHEDULED EUTH DAY	267
74829-05	-1.	-4.	5.	SCHEDULED EUTH DAY	268
74840-02	-15.	17.	-2.	SCHEDULED EUTH DAY	268
74841-02	1.	1.	5.	SCHEDULED EUTH DAY	269
74841-06	-4.	0.	-13.	SCHEDULED EUTH DAY	268
74844-04	4.	-1.	2.	SCHEDULED EUTH DAY	266
74845-01	5.	-3.	1.	SCHEDULED EUTH DAY	267
74845-03	-2.	19.	7.	SCHEDULED EUTH DAY	268
74854-06	-8.	-7.	5.	SCHEDULED EUTH DAY	266

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
-----					
ANIMAL					
74854-02	5.	9.	16.	SCHEDULED EUTH DAY	268
74864-06	1.	2.	2.	SCHEDULED EUTH DAY	267
74867-03	5.	9.	-16.	SCHEDULED EUTH DAY	266
74867-01	7.	4.	7.	SCHEDULED EUTH DAY	268
MEAN	-2.	5.	3.		
S.D.	8.8	10.4	6.4		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 19

DAY	246 TO 253	253 TO 260	260 TO 266	MALE	GROUP:	500 PPM
ANIMAL						
74742-03	-11.	8.	7.	SCHEDULED	EUTH DAY	268
74746-06	3.	12.	0.	SCHEDULED	EUTH DAY	269
74753-04	7.	5.	-4.	SCHEDULED	EUTH DAY	268
74753-02	-7.	10.	5.	SCHEDULED	EUTH DAY	268
74761-09	2.	8.	11.	SCHEDULED	EUTH DAY	267
74762-04	4.	16.	0.	SCHEDULED	EUTH DAY	266
74790-09	9.	11.	9.	SCHEDULED	EUTH DAY	269
74782-04	3.	7.	5.	SCHEDULED	EUTH DAY	269
74785-04	3.	5.	10.	SCHEDULED	EUTH DAY	269
74790-02	5.	5.	-10.	SCHEDULED	EUTH DAY	266
74796-07	5.	9.	3.	SCHEDULED	EUTH DAY	267
74797-09	19.	7.	9.	SCHEDULED	EUTH DAY	268
74798-04	6.	11.	0.	SCHEDULED	EUTH DAY	267
74802-05	16.	0.	-1.	SCHEDULED	EUTH DAY	267
74802-08	0.	1.	-4.	SCHEDULED	EUTH DAY	266
74809-09	-7.	18.	12.	SCHEDULED	EUTH DAY	269
74816-05	0.	9.	11.	SCHEDULED	EUTH DAY	267
74819-03	4.	-2.	7.	SCHEDULED	EUTH DAY	266
74823-01	-8.	14.	-4.	SCHEDULED	EUTH DAY	269
74824-05	23.	2.	5.	SCHEDULED	EUTH DAY	268
74835-03	2.	10.	6.	SCHEDULED	EUTH DAY	269
74838-06	2.	-7.	6.	SCHEDULED	EUTH DAY	266
74839-02	14.	4.	2.	SCHEDULED	EUTH DAY	268
74846-03	2.	7.	0.	SCHEDULED	EUTH DAY	266
74856-06	-9.	-23.	44.	SCHEDULED	EUTH DAY	266
74859-06	-3.	5.	15.	SCHEDULED	EUTH DAY	267

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 20

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	500 PPM
-----					
ANIMAL					
74861-02	14.	14.	4.	SCHEDULED EUTH DAY	269
74863-05	10.	-9.	17.	SCHEDULED EUTH DAY	268
74863-02	-9.	5.	4.	SCHEDULED EUTH DAY	267
74869-02	14.	1.	9.	SCHEDULED EUTH DAY	267
MEAN	4.	5.	6.		
S.D.	8.6	8.1	9.4		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 21

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	1000 PPM
ANIMAL					
74738-02	9.	6.	9.	SCHEDULED EUTH DAY	266
74739-04	2.	-7.	6.	SCHEDULED EUTH DAY	266
74743-04	4.	-20.	10.	SCHEDULED EUTH DAY	269
74744-02	4.	6.	-9.	SCHEDULED EUTH DAY	266
74748-05	7.	9.	3.	SCHEDULED EUTH DAY	267
74748-02	1.	5.	4.	SCHEDULED EUTH DAY	268
74752-05	6.	0.	10.	SCHEDULED EUTH DAY	268
74766-02	9.	14.	1.	SCHEDULED EUTH DAY	267
74780-03	8.	15.	-2.	SCHEDULED EUTH DAY	269
74791-05	2.	6.	7.	SCHEDULED EUTH DAY	269
74791-02	15.	-3.	2.	SCHEDULED EUTH DAY	268
74793-05	-6.	3.	9.	SCHEDULED EUTH DAY	266
74795-06	-7.	-2.	0.	SCHEDULED EUTH DAY	266
74799-03	-7.	9.	2.	SCHEDULED EUTH DAY	268
74801-10	-4.	0.	9.	SCHEDULED EUTH DAY	267
74806-06	6.	4.	6.	SCHEDULED EUTH DAY	267
74806-03	8.	-4.	17.	SCHEDULED EUTH DAY	269
74820-02	7.	1.	10.	SCHEDULED EUTH DAY	268
74821-02	-5.	10.	8.	SCHEDULED EUTH DAY	267
74830-02	-5.	8.	11.	SCHEDULED EUTH DAY	269
74831-02	17.	3.	-3.	SCHEDULED EUTH DAY	268
74834-04	22.	5.	1.	SCHEDULED EUTH DAY	267
74847-03	5.	17.	3.	SCHEDULED EUTH DAY	269
74848-03	17.	-2.	0.	SCHEDULED EUTH DAY	267
74849-03	9.	2.	9.	SCHEDULED EUTH DAY	268
74850-05	-7.	-1.	4.	SCHEDULED EUTH DAY	268

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 22

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	1000 PPM
ANIMAL					
74855-08	5.	-3.	7.	SCHEDULED EUTH DAY	269
74858-04	15.	0.	-15.	SCHEDULED EUTH DAY	266
74868-02	-4.	16.	-12.	SCHEDULED EUTH DAY	266
74871-06	7.	6.	8.	SCHEDULED EUTH DAY	266
MEAN	5.	3.	4.		
S.D.	7.9	7.6	7.0		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 23

DAY	246 TO 253	253 TO 260	260 TO 266	MALE	GROUP:	2500 PPM
ANIMAL						
74747-04	8.	-10.	0.	SCHEDULED	EUTH DAY	268
74747-03	-4.	-11.	7.	SCHEDULED	EUTH DAY	266
74751-05	-2.	9.	12.	SCHEDULED	EUTH DAY	267
74751-02	0.	7.	1.	SCHEDULED	EUTH DAY	268
74754-09	3.	0.	6.	SCHEDULED	EUTH DAY	268
74755-05	7.	7.	6.	SCHEDULED	EUTH DAY	269
74768-02	-1.	4.	15.	SCHEDULED	EUTH DAY	266
74769-07	3.	2.	3.	SCHEDULED	EUTH DAY	268
74770-06	-1.	1.	8.	SCHEDULED	EUTH DAY	268
74786-05	11.	17.	-2.	SCHEDULED	EUTH DAY	266
74786-07	-1.	17.	-6.	SCHEDULED	EUTH DAY	269
74787-06	10.	14.	4.	SCHEDULED	EUTH DAY	266
74792-03	5.	3.	1.	SCHEDULED	EUTH DAY	267
74807-05	7.	6.	10.	SCHEDULED	EUTH DAY	269
74811-01	-9.	11.	5.	SCHEDULED	EUTH DAY	267
74813-08	0.	3.	9.	SCHEDULED	EUTH DAY	268
74817-04	2.	-4.	3.	SCHEDULED	EUTH DAY	269
74822-15	4.	-13.	3.	SCHEDULED	EUTH DAY	266
74822-14	17.	-8.	12.	SCHEDULED	EUTH DAY	266
74827-03	-2.	0.	13.	SCHEDULED	EUTH DAY	266
74832-03	8.	7.	-3.	SCHEDULED	EUTH DAY	267
74833-02	11.	-7.	2.	SCHEDULED	EUTH DAY	269
74836-08	4.	4.	3.	SCHEDULED	EUTH DAY	267
74853-06	0.	7.	14.	SCHEDULED	EUTH DAY	267
74857-10	3.	12.	6.	SCHEDULED	EUTH DAY	268
74860-03	11.	2.	9.	SCHEDULED	EUTH DAY	269

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 192 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	2500 PPM
-----					
ANIMAL					
74860-02	8.	4.	1.	SCHEDULED EUTH DAY	269
74862-08	-3.	6.	2.	SCHEDULED EUTH DAY	269
74866-01	12.	6.	14.	SCHEDULED EUTH DAY	267
74870-06	-1.	11.	17.	SCHEDULED EUTH DAY	267
MEAN	4.	4.	6.		
S.D.	5.8	7.8	5.8		
N	30	30	30		

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-14	36.	26.	30.	24.	5.	7.	19.	11.
74737-10	25.	36.	12.	24.	11.	6.	4.	12.
74740-07	25.	21.	19.	8.	0.	31.	16.	3.
74757-11	30.	22.	21.	19.	13.	7.	13.	-4.
74759-09	26.	10.	23.	14.	6.	6.	15.	3.
74764-10	33.	24.	18.	27.	23.	12.	8.	20.
74767-16	37.	28.	14.	23.	14.	7.	10.	10.
74767-10	31.	18.	33.	9.	16.	9.	5.	18.
74772-09	38.	30.	23.	18.	14.	16.	9.	18.
74773-15	26.	27.	19.	5.	23.	-4.	14.	8.
74773-08	28.	28.	16.	15.	15.	12.	11.	1.
74774-15	42.	32.	39.	27.	22.	10.	16.	21.
74789-10	43.	24.	30.	13.	19.	7.	11.	7.
74789-09	28.	29.	28.	23.	12.	21.	8.	13.
74804-11	38.	27.	21.	24.	4.	15.	17.	9.
74804-08	35.	28.	23.	14.	18.	10.	11.	-8.
74808-13	31.	27.	27.	3.	25.	4.	19.	3.
74808-11	28.	24.	21.	20.	4.	22.	4.	12.
74810-16	25.	26.	18.	21.	9.	5.	20.	0.
74826-11	28.	32.	14.	14.	16.	16.	11.	3.
74826-08	34.	28.	12.	11.	20.	9.	8.	-1.
74829-11	37.	28.	19.	6.	25.	11.	2.	-4.
74840-03	43.	27.	14.	26.	8.	5.	31.	-8.
74841-12	28.	22.	16.	13.	3.	8.	11.	-1.
74844-05	35.	26.	21.	23.	13.	6.	20.	6.
74844-07	28.	23.	28.	16.	14.	5.	14.	3.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 2

DAY	FEMALE GROUP: 0 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74845-07	30.	21.	22.	9.	28.	10.	7.	4.
74854-08	38.	32.	20.	21.	6.	17.	13.	7.
74864-15	40.	21.	28.	15.	19.	11.	7.	14.
74867-07	22.	37.	22.	17.	5.	32.	16.	-6.
MEAN	32.	26.	22.	17.	14.	11.	12.	6.
S.D.	5.9	5.3	6.4	6.8	7.6	7.7	6.1	8.1
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 3

DAY	FEMALE GROUP:					500 PPM			
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190	
ANIMAL									
74742-18	22.	22.	15.	9.	15.	10.	10.	1.	
74746-10	32.	36.	29.	19.	26.	-1.	25.	10.	
74753-12	34.	33.	13.	32.	7.	13.	5.	19.	
74761-12	34.	29.	27.	15.	13.	22.	1.	11.	
74762-11	36.	14.	33.	19.	7.	17.	10.	19.	
74782-09	36.	26.	18.	21.	17.	11.	10.	7.	
74785-08	30.	27.	22.	20.	15.	5.	2.	13.	
74790-15	12.	11.	22.	16.	20.	3.	11.	7.	
74790-14	28.	30.	25.	19.	13.	12.	9.	3.	
74796-15	35.	33.	27.	17.	29.	18.	16.	6.	
74797-12	27.	22.	24.	13.	2.	16.	6.	12.	
74798-13	32.	33.	13.	20.	17.	14.	4.	14.	
74798-12	31.	29.	28.	16.	25.	4.	15.	13.	
74802-10	39.	29.	26.	12.	8.	6.	11.	7.	
74809-08	27.	21.	24.	13.	11.	-1.	10.	10.	
74816-12	20.	24.	12.	24.	18.	5.	12.	7.	
74819-10	29.	24.	26.	19.	12.	14.	14.	9.	
74823-12	35.	15.	24.	22.	13.	9.	15.	8.	
74824-11	37.	24.	28.	17.	20.	15.	9.	6.	
74835-11	19.	14.	8.	16.	9.	3.	0.	17.	
74835-07	10.	39.	20.	8.	10.	22.	10.	7.	
74838-11	23.	18.	17.	8.	22.	10.	7.	3.	
74839-18	28.	29.	27.	12.	7.	14.	11.	2.	
74846-07	17.	25.	17.	14.	9.	-3.	7.	6.	
74856-15	32.	28.	19.	17.	17.	12.	8.	9.	
74859-09	37.	33.	15.	11.	22.	11.	7.	-1.	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74859-12	37.	25.	23.	19.	11.	17.	10.	9.
74861-05	31.	21.	23.	12.	19.	8.	8.	10.
74863-10	35.	29.	24.	19.	5.	17.	15.	10.
74869-04	29.	26.	21.	18.	17.	16.	8.	13.
MEAN	29.	26.	22.	17.	15.	11.	10.	9.
S.D.	7.6	6.7	5.9	5.0	6.6	6.6	5.0	4.9
N	30	30	30	30	30	30	30	30

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TABLE 193 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

DAY	FEMALE GROUP:					1000 PPM			
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190	
ANIMAL									
74738-07	32.	21.	25.	20.	12.	5.	16.	11.	
74738-12	34.	23.	28.	17.	11.	21.	2.	17.	
74739-08	33.	30.	11.	30.	4.	16.	5.	19.	
74743-08	31.	29.	18.	15.	6.	19.	5.	4.	
74744-16	41.	32.	17.	23.	22.	10.	1.	13.	
74748-11	31.	28.	23.	20.	14.	11.	5.	7.	
74752-10	25.	22.	6.	33.	4.	22.	12.	5.	
74766-13	33.	26.	18.	23.	10.	4.	9.	5.	
74780-04	19.	23.	28.	11.	31.	10.	8.	7.	
74791-13	27.	24.	14.	15.	7.	12.	9.	10.	
74793-14	31.	25.	17.	21.	12.	10.	3.	11.	
74795-09	34.	33.	35.	37.	-12.	19.	15.	7.	
74799-14	29.	15.	28.	15.	14.	-2.	15.	6.	
74801-14	41.	32.	26.	23.	18.	8.	13.	2.	
74806-11	26.	30.	24.	14.	12.	13.	7.	11.	
74820-12	27.	23.	11.	11.	17.	11.	3.	4.	
74821-09	30.	24.	33.	12.	30.	12.	12.	3.	
74821-07	29.	26.	28.	13.	8.	10.	8.	6.	
74830-11	38.	28.	20.	20.	25.	4.	2.	16.	
74831-12	33.	35.	26.	6.	22.	19.	1.	-5.	
74834-07	28.	25.	15.	15.	-3.	19.	11.	4.	
74847-09	23.	22.	23.	28.	16.	12.	15.	18.	
74848-04	31.	24.	23.	27.	10.	13.	2.	17.	
74849-07	22.	30.	17.	8.	26.	12.	2.	13.	
74850-11	24.	30.	23.	16.	8.	11.	8.	8.	
74850-14	29.	31.	18.	14.	7.	20.	4.	8.	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-11	23.	24.	18.	10.	19.	8.	5.	4.
74858-14	31.	34.	22.	20.	11.	10.	12.	11.
74868-20	47.	13.	38.	31.	18.	10.	-2.	18.
74871-09	25.	20.	20.	20.	21.	9.	5.	17.
MEAN	30.	26.	22.	19.	13.	12.	7.	9.
S.D.	6.1	5.3	7.2	7.7	9.3	5.6	5.0	5.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 7

DAY	FEMALE GROUP: 2500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-17	28.	21.	20.	24.	14.	1.	20.	9.
74751-13	32.	17.	21.	12.	22.	20.	-1.	-1.
74754-15	29.	31.	19.	27.	15.	16.	0.	11.
74755-01	19.	20.	12.	5.	16.	8.	5.	0.
74768-11	32.	32.	16.	23.	18.	11.	9.	12.
74769-08	37.	28.	20.	28.	15.	13.	4.	12.
74770-11	33.	23.	33.	23.	21.	3.	18.	11.
74770-10	39.	36.	11.	23.	24.	16.	-4.	14.
74786-10	10.	19.	14.	10.	11.	18.	11.	9.
74787-10	29.	22.	17.	7.	15.	13.	5.	8.
74792-11	27.	26.	22.	14.	17.	5.	10.	16.
74792-12	28.	21.	25.	15.	16.	7.	9.	10.
74807-08	26.	25.	11.	19.	4.	20.	6.	17.
74811-13	28.	14.	24.	11.	12.	4.	8.	12.
74813-12	29.	24.	19.	6.	14.	9.	10.	-2.
74817-13	39.	34.	22.	19.	16.	14.	10.	15.
74822-08	10.	27.	20.	10.	2.	17.	8.	11.
74827-11	25.	17.	23.	11.	19.	9.	8.	10.
74832-07	26.	19.	18.	12.	12.	5.	11.	4.
74833-11	17.	21.	30.	13.	8.	17.	-4.	18.
74836-12	27.	22.	18.	29.	19.	8.	2.	19.
74836-11	31.	26.	23.	18.	8.	15.	5.	15.
74853-11	26.	25.	24.	16.	17.	6.	13.	-1.
74853-12	31.	34.	19.	22.	0.	21.	13.	-1.
74857-14	24.	29.	0.	44.	18.	18.	10.	-1.
74857-09	20.	30.	15.	23.	10.	24.	11.	21.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-08	31.	28.	25.	10.	28.	8.	15.	-1.
74862-13	31.	22.	31.	-4.	8.	19.	13.	8.
74866-16	25.	20.	15.	24.	15.	16.	22.	2.
74870-03	38.	41.	15.	31.	25.	9.	6.	14.
MEAN	28.	25.	19.	18.	15.	12.	8.	9.
S.D.	7.1	6.3	6.6	9.6	6.5	6.1	6.2	6.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 9

DAY	FEMALE GROUP:							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-14	0.	9.	-3.	-9.	16.	-9.	20.	5.
74737-10	8.	-3.	NA	NA	NA	NA	NA	NA
74740-07	12.	4.	1.	NA	NA	NA	NA	-2.
74757-11	12.	4.	NA	NA	NA	NA	NA	-2.
74759-09	7.	-5.	NA	NA	NA	NA	NA	NA
74764-10	11.	2.	NA	NA	NA	NA	NA	NA
74767-16	-10.	19.	NA	NA	NA	NA	NA	NA
74767-10	-1.	8.	NA	NA	NA	NA	NA	NA
74772-09	-1.	-2.	NA	NA	NA	NA	NA	NA
74773-15	5.	0.	-1.	NA	NA	NA	NA	NA
74773-08	4.	9.	NA	NA	NA	NA	NA	NA
74774-15	0.	2.	NA	NA	NA	NA	NA	4.
74789-10	8.	-2.	NA	NA	NA	NA	NA	NA
74789-09	6.	1.	NA	NA	NA	NA	NA	NA
74804-11	-5.	13.	4.	NA	NA	NA	NA	NA
74804-08	12.	6.	NA	NA	NA	NA	NA	NA
74808-13	9.	-8.	NA	NA	NA	NA	NA	NA
74808-11	2.	-6.	NA	NA	NA	NA	NA	NA
74810-16	9.	6.	NA	NA	NA	NA	NA	NA
74826-11	14.	11.	NA	NA	NA	NA	11.	3.
74826-08	10.	9.	NA	NA	NA	NA	NA	NA
74829-11	13.	5.	NA	NA	NA	NA	NA	NA
74840-03	7.	7.	-3.	NA	NA	NA	NA	NA
74841-12	2.	4.	NA	NA	NA	NA	NA	NA
74844-05	14.	4.	NA	NA	NA	NA	16.	3.
74844-07	6.	2.	8.	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 10

DAY	FEMALE GROUP: 0 PPM								
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74845-07	9.	7.	NA	NA	NA	NA	NA	NA	NA
74854-08	-12.	8.	NA	NA	NA	NA	NA	17.	
74864-15	2.	6.	-6.	NA	NA	NA	NA	12.	
74867-07	-7.	20.	NA	NA	NA	NA	NA	NA	NA
MEAN	5.	5.	0.	-9.	16.	-9.	16.	5.	
S.D.	7.0	6.5	4.8	0.0	0.0	0.0	4.5	6.5	
N	30	30	7	1	1	1	3	8	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 11

DAY	FEMALE GROUP:					500 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74742-18	11.	6.	NA	NA	NA	NA	NA	NA	
74746-10	8.	10.	NA	NA	NA	NA	NA	NA	
74753-12	8.	2.	NA	NA	NA	NA	NA	NA	
74761-12	9.	1.	NA	NA	NA	NA	NA	NA	
74762-11	4.	5.	NA	NA	NA	NA	NA	NA	
74782-09	9.	1.	NA	NA	NA	NA	NA	NA	
74785-08	-1.	6.	NA	NA	NA	NA	NA	NA	
74790-15	1.	0.	NA	NA	NA	NA	NA	NA	
74790-14	3.	7.	NA	NA	NA	NA	NA	NA	
74796-15	6.	14.	NA	NA	NA	NA	NA	NA	
74797-12	-5.	6.	-3.	NA	NA	NA	NA	6.	
74798-13	14.	-14.	NA	NA	NA	NA	NA	NA	
74798-12	5.	3.	NA	NA	NA	NA	NA	NA	
74802-10	2.	6.	6.	NA	NA	NA	NA	NA	
74809-08	-1.	-3.	NA	NA	NA	NA	NA	NA	
74816-12	2.	9.	NA	NA	NA	NA	NA	NA	
74819-10	-1.	5.	NA	NA	NA	NA	NA	NA	
74823-12	0.	10.	NA	NA	NA	NA	NA	NA	
74824-11	9.	7.	11.	5.	-5.	13.	0.	0.	
74835-11	0.	5.	NA	NA	NA	NA	NA	-2.	
74835-07	0.	6.	NA	NA	NA	NA	NA	NA	
74838-11	13.	3.	NA	NA	NA	NA	NA	NA	
74839-18	-1.	12.	1.	NA	NA	NA	NA	10.	
74846-07	3.	8.	NA	NA	NA	NA	NA	NA	
74856-15	3.	2.	NA	NA	NA	NA	NA	NA	
74859-09	13.	5.	NA	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 12

DAY	FEMALE GROUP: 500 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74859-12	3.	1.	NA	NA	NA	NA	NA	NA
74861-05	5.	2.	NA	NA	NA	NA	NA	NA
74863-10	2.	7.	7.	0.	4.	3.	3.	9.
74869-04	-8.	16.	NA	NA	NA	NA	NA	NA
MEAN	4.	5.	4.	3.	-1.	8.	2.	5.
S.D.	5.3	5.5	5.5	3.5	6.4	7.1	2.1	5.4
N	30	30	5	2	2	2	2	5

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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ANIMAL	FEMALE GROUP: 1000 PPM								
	DAY 190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
74738-07	1.	2.	NA	NA	NA	NA	NA	NA	NA
74738-12	2.	5.	NA	NA	NA	NA	NA	NA	NA
74739-08	-14.	15.	-5.	NA	NA	NA	NA	NA	7.
74743-08	-1.	12.	14.	24.	40.	NA	NA	NA	NA
74744-16	11.	2.	-12.	16.	-1.	-1.	16.	4.	NA
74748-11	13.	5.	NA	NA	NA	NA	NA	NA	NA
74752-10	15.	5.	NA	NA	NA	NA	NA	NA	NA
74766-13	0.	12.	-5.	9.	1.	-3.	9.	-2.	NA
74780-04	-5.	17.	16.	NA	NA	NA	NA	NA	NA
74791-13	-23.	29.	NA	NA	NA	NA	NA	NA	NA
74793-14	7.	6.	NA	NA	NA	NA	NA	NA	NA
74795-09	-1.	5.	NA	NA	NA	NA	NA	11.	NA
74799-14	4.	-4.	NA	NA	NA	NA	NA	NA	NA
74801-14	36.	-15.	7.	13.	-26.	8.	-3.	8.	NA
74806-11	2.	7.	NA	NA	NA	NA	NA	NA	NA
74820-12	7.	7.	NA	NA	NA	NA	NA	NA	NA
74821-09	14.	9.	NA	NA	NA	NA	NA	NA	NA
74821-07	2.	7.	NA	NA	NA	NA	NA	NA	NA
74830-11	7.	8.	NA	NA	NA	NA	-1.	-2.	NA
74831-12	12.	7.	NA	NA	NA	NA	NA	NA	NA
74834-07	-7.	13.	NA	NA	NA	NA	NA	NA	NA
74847-09	5.	4.	NA	NA	NA	NA	NA	NA	NA
74848-04	7.	-1.	NA	NA	NA	NA	NA	NA	NA
74849-07	14.	-3.	NA	NA	NA	NA	NA	NA	NA
74850-11	1.	8.	NA	NA	NA	NA	NA	NA	NA
74850-14	1.	10.	4.	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

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DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-11	12.	4.	NA	NA	NA	NA	NA	NA
74858-14	-4.	10.	NA	NA	NA	NA	NA	7.
74868-20	5.	-4.	NA	NA	NA	NA	NA	NA
74871-09	4.	6.	5.	NA	NA	NA	NA	NA
MEAN	4.	6.	3.	16.	4.	1.	5.	5.
S.D.	10.3	7.7	9.7	6.4	27.3	5.9	8.9	5.0
N	30	30	8	4	4	3	4	7

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES [G]

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ANIMAL	FEMALE GROUP: 2500 PPM								
	DAY 190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
74747-17	10.	-8.	16.	7.	-13.	5.	22.	-5.	
74751-13	13.	8.	NA	NA	NA	NA	NA	NA	
74754-15	6.	5.	NA	NA	NA	NA	NA	NA	
74755-01	11.	6.	0.	-7.	9.	1.	11.	-6.	
74768-11	4.	3.	NA	NA	NA	NA	NA	NA	
74769-08	8.	-3.	NA	NA	NA	NA	NA	NA	
74770-11	8.	-6.	NA	NA	NA	NA	NA	NA	
74770-10	19.	1.	NA	NA	NA	NA	NA	NA	
74786-10	7.	6.	NA	NA	NA	NA	NA	NA	
74787-10	4.	9.	-1.	-2.	-4.	12.	8.	1.	
74792-11	1.	2.	4.	1.	8.	4.	10.	6.	
74792-12	5.	2.	NA	NA	NA	NA	NA	NA	
74807-08	1.	7.	NA	NA	NA	NA	NA	NA	
74811-13	2.	2.	NA	NA	NA	NA	NA	NA	
74813-12	13.	0.	NA	NA	NA	NA	0.	8.	
74817-13	11.	-1.	NA	NA	NA	NA	NA	NA	
74822-08	-6.	10.	NA	NA	NA	NA	NA	NA	
74827-11	0.	4.	NA	NA	NA	NA	NA	NA	
74832-07	0.	7.	9.	NA	NA	NA	NA	NA	
74833-11	-3.	14.	NA	NA	NA	NA	NA	NA	
74836-12	11.	2.	NA	NA	NA	NA	NA	NA	
74836-11	-1.	16.	NA	NA	NA	NA	NA	NA	
74853-11	9.	11.	NA	NA	NA	NA	NA	NA	
74853-12	1.	5.	NA	NA	NA	NA	NA	NA	
74857-14	14.	4.	25.	-6.	-26.	19.	6.	12.	
74857-09	9.	-15.	9.	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
-----								
ANIMAL								
74860-08	6.	7.	NA	NA	NA	NA	NA	NA
74862-13	3.	6.	NA	NA	NA	NA	NA	NA
74866-16	11.	23.	NA	NA	NA	NA	NA	NA
74870-03	13.	2.	NA	NA	NA	NA	NA	NA
MEAN	6.	4.	9.	-1.	-5.	8.	10.	3.
S.D.	5.8	7.2	9.2	5.7	14.8	7.3	7.3	7.3
N	30	30	7	5	5	5	6	6

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	0 PPM
ANIMAL					
74737-14	0.	14.	3.	SCHEDULED EUTH DAY	266
74737-10	NA	-3.	13.	SCHEDULED EUTH DAY	266
74740-07	9.	4.	16.	SCHEDULED EUTH DAY	267
74757-11	6.	8.	-1.	SCHEDULED EUTH DAY	268
74759-09	NA	-14.	12.	SCHEDULED EUTH DAY	268
74764-10	NA	10.	32.	SCHEDULED EUTH DAY	268
74767-16	NA	-11.	16.	SCHEDULED EUTH DAY	269
74767-10	NA	11.	6.	SCHEDULED EUTH DAY	267
74772-09	NA	6.	4.	SCHEDULED EUTH DAY	269
74773-15	NA	NA	0.	SCHEDULED EUTH DAY	269
74773-08	NA	17.	-1.	SCHEDULED EUTH DAY	266
74774-15	-1.	13.	11.	SCHEDULED EUTH DAY	268
74789-10	NA	-22.	7.	SCHEDULED EUTH DAY	266
74789-09	NA	-4.	8.	SCHEDULED EUTH DAY	267
74804-11	NA	NA	NA	SCHEDULED EUTH DAY	268
74804-08	NA	19.	2.	SCHEDULED EUTH DAY	268
74808-13	NA	-27.	9.	SCHEDULED EUTH DAY	267
74808-11	NA	-43.	9.	SCHEDULED EUTH DAY	266
74810-16	NA	-3.	-10.	SCHEDULED EUTH DAY	269
74826-11	6.	2.	13.	SCHEDULED EUTH DAY	266
74826-08	NA	11.	-7.	SCHEDULED EUTH DAY	266
74829-11	NA	4.	1.	SCHEDULED EUTH DAY	267
74840-03	NA	NA	5.	SCHEDULED EUTH DAY	268
74841-12	NA	-11.	-2.	SCHEDULED EUTH DAY	266
74844-05	9.	-9.	12.	SCHEDULED EUTH DAY	269
74844-07	NA	NA	9.	SCHEDULED EUTH DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	0 PPM
-----					
ANIMAL					
74845-07	NA	8.	-3.	SCHEDULED EUTH DAY	268
74854-08	-2.	4.	11.	SCHEDULED EUTH DAY	269
74864-15	3.	-7.	8.	SCHEDULED EUTH DAY	267
74867-07	NA	-2.	15.	SCHEDULED EUTH DAY	267
MEAN	4.	-1.	7.		
S.D.	4.4	14.4	8.3		
N	8	26	29		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 19

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
-----							
ANIMAL							
74742-18	NA	10.	2.	SCHEDULED	EUTH	DAY	268
74746-10	NA	16.	8.	SCHEDULED	EUTH	DAY	267
74753-12	NA	-5.	3.	SCHEDULED	EUTH	DAY	269
74761-12	NA	3.	15.	SCHEDULED	EUTH	DAY	268
74762-11	NA	-6.	22.	SCHEDULED	EUTH	DAY	267
74782-09	NA	8.	6.	SCHEDULED	EUTH	DAY	266
74785-08	NA	14.	11.	SCHEDULED	EUTH	DAY	269
74790-15	NA	NA	9.	SCHEDULED	EUTH	DAY	267
74790-14	NA	-19.	15.	SCHEDULED	EUTH	DAY	269
74796-15	NA	6.	0.	SCHEDULED	EUTH	DAY	267
74797-12	-4.	8.	1.	SCHEDULED	EUTH	DAY	266
74798-13	NA	-5.	10.	SCHEDULED	EUTH	DAY	268
74798-12	NA	-13.	-2.	SCHEDULED	EUTH	DAY	267
74802-10	NA	NA	6.	SCHEDULED	EUTH	DAY	267
74809-08	NA	-11.	1.	SCHEDULED	EUTH	DAY	269
74816-12	NA	NA	10.	SCHEDULED	EUTH	DAY	266
74819-10	NA	-15.	-5.	SCHEDULED	EUTH	DAY	268
74823-12	NA	-9.	-1.	SCHEDULED	EUTH	DAY	266
74824-11	7.	4.	1.	SCHEDULED	EUTH	DAY	268
74835-11	-6.	7.	-3.	SCHEDULED	EUTH	DAY	269
74835-07	NA	6.	-2.	SCHEDULED	EUTH	DAY	268
74838-11	NA	19.	2.	SCHEDULED	EUTH	DAY	269
74839-18	-3.	-2.	3.	SCHEDULED	EUTH	DAY	266
74846-07	NA	NA	19.	SCHEDULED	EUTH	DAY	269
74856-15	NA	4.	2.	SCHEDULED	EUTH	DAY	266
74859-09	NA	6.	-5.	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 20

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74859-12	NA	-6.	24.	SCHEDULED EUTH DAY	267
74861-05	1.	1.	-6.	SCHEDULED EUTH DAY	268
74863-10	13.	-5.	9.	SCHEDULED EUTH DAY	266
74869-04	NA	-29.	15.	SCHEDULED EUTH DAY	269
MEAN	1.	-1.	6.		
S.D.	7.3	11.3	8.1		
N	6	26	30		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 21

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	1000 PPM
ANIMAL					
74738-07	NA	8.	3.	SCHEDULED EUTH DAY	266
74738-12	NA	9.	10.	SCHEDULED EUTH DAY	266
74739-08	8.	6.	0.	SCHEDULED EUTH DAY	267
74743-08	NA	-10.	12.	SCHEDULED EUTH DAY	266
74744-16	-1.	10.	2.	SCHEDULED EUTH DAY	269
74748-11	NA	NA	2.	SCHEDULED EUTH DAY	268
74752-10	NA	11.	10.	SCHEDULED EUTH DAY	269
74766-13	12.	3.	-4.	SCHEDULED EUTH DAY	268
74780-04	NA	NA	5.	SCHEDULED EUTH DAY	266
74791-13	NA	-1.	3.	SCHEDULED EUTH DAY	267
74793-14	NA	3.	9.	SCHEDULED EUTH DAY	269
74795-09	-12.	6.	-9.	SCHEDULED EUTH DAY	267
74799-14	NA	18.	7.	SCHEDULED EUTH DAY	268
74801-14	14.	12.	6.	SCHEDULED EUTH DAY	266
74806-11	NA	-3.	6.	SCHEDULED EUTH DAY	268
74820-12	NA	8.	7.	SCHEDULED EUTH DAY	267
74821-09	NA	7.	19.	SCHEDULED EUTH DAY	268
74821-07	NA	-17.	3.	SCHEDULED EUTH DAY	266
74830-11	6.	0.	-5.	SCHEDULED EUTH DAY	266
74831-12	NA	-19.	8.	SCHEDULED EUTH DAY	267
74834-07	NA	-41.	3.	SCHEDULED EUTH DAY	268
74847-09	NA	-7.	7.	SCHEDULED EUTH DAY	269
74848-04	NA	4.	1.	SCHEDULED EUTH DAY	268
74849-07	NA	-4.	4.	SCHEDULED EUTH DAY	268
74850-11	NA	-33.	19.	SCHEDULED EUTH DAY	269
74850-14	NA	NA	10.	SCHEDULED EUTH DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 22

FEMALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74855-11	NA	7.	5.	SCHEDULED EUTH DAY	267
74858-14	8.	-6.	11.	SCHEDULED EUTH DAY	269
74868-20	NA	21.	1.	SCHEDULED EUTH DAY	267
74871-09	NA	NA	-3.	SCHEDULED EUTH DAY	266
MEAN	5.	0.	5.		
S.D.	8.9	14.4	6.2		
N	7	26	30		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 23

FEMALE GROUP: 2500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-17	-1.	11.	10.	SCHEDULED	EUTH	DAY	268
74751-13	NA	8.	13.	SCHEDULED	EUTH	DAY	267
74754-15	NA	3.	1.	SCHEDULED	EUTH	DAY	267
74755-01	3.	10.	-3.	SCHEDULED	EUTH	DAY	266
74768-11	NA	2.	10.	SCHEDULED	EUTH	DAY	268
74769-08	NA	14.	4.	SCHEDULED	EUTH	DAY	267
74770-11	NA	-3.	22.	SCHEDULED	EUTH	DAY	267
74770-10	NA	13.	8.	SCHEDULED	EUTH	DAY	268
74786-10	NA	-13.	8.	SCHEDULED	EUTH	DAY	269
74787-10	-4.	9.	5.	SCHEDULED	EUTH	DAY	267
74792-11	4.	0.	1.	SCHEDULED	EUTH	DAY	266
74792-12	NA	4.	8.	SCHEDULED	EUTH	DAY	268
74807-08	NA	1.	8.	SCHEDULED	EUTH	DAY	266
74811-13	NA	11.	-5.	SCHEDULED	EUTH	DAY	267
74813-12	1.	9.	4.	SCHEDULED	EUTH	DAY	269
74817-13	NA	5.	-8.	SCHEDULED	EUTH	DAY	266
74822-08	NA	-3.	-7.	SCHEDULED	EUTH	DAY	266
74827-11	NA	-1.	3.	SCHEDULED	EUTH	DAY	269
74832-07	NA	NA	2.	SCHEDULED	EUTH	DAY	267
74833-11	NA	14.	-8.	SCHEDULED	EUTH	DAY	267
74836-12	NA	35.	9.	SCHEDULED	EUTH	DAY	269
74836-11	NA	-2.	2.	SCHEDULED	EUTH	DAY	269
74853-11	NA	14.	6.	SCHEDULED	EUTH	DAY	269
74853-12	NA	-21.	10.	SCHEDULED	EUTH	DAY	269
74857-14	-5.	7.	5.	SCHEDULED	EUTH	DAY	268
74857-09	NA	NA	-10.	SCHEDULED	EUTH	DAY	266

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 193 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES [G]

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	2500 PPM
-----					
ANIMAL					
74860-08	NA	6.	1.	SCHEDULED EUTH DAY	268
74862-13	NA	6.	-2.	SCHEDULED EUTH DAY	266
74866-16	NA	13.	12.	SCHEDULED EUTH DAY	268
74870-03	NA	NA	20.	SCHEDULED EUTH DAY	269
MEAN	0.	6.	4.		
S.D.	3.7	10.1	7.7		
N	6	27	30		

NA = NOT APPLICABLE

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09/05/2002

PREGNANCY		DAY	0	4	7	11	14	20
STATUS								
DAMS FROM GROUP 1:			0 PPM					
74737-10	G		279.	292.	298.	321.	332.	406.
74740-07	NG		290.	291.	290.	296.	305.	315.
74757-11	NG		282.	289.	282.	290.	293.	297.
74759-09	G		239.	256.	264.	287.	290.	356.
74764-10	G		315.	324.	329.	347.	347.	420.
74767-16	G		272.	292.	299.	320.	322.	387.
74767-10	G		298.	314.	327.	349.	365.	416.
74772-09	G		281.	302.	312.	339.	351.	411.
74773-15	G		267.	290.	278.	313.	322.	349.
74773-08	G		288.	302.	319.	340.	346.	414.
74774-15	NG		331.	334.	318.	336.	336.	349.
74789-10	G		270.	272.	297.	315.	339.	398.
74789-09	G		272.	289.	297.	323.	318.	395.
74804-11	G		273.	290.	303.	313.	324.	366.
74804-08	G		256.	278.	288.	301.	313.	398.
74808-13	G		291.	316.	323.	337.	351.	408.
74808-11	G		261.	285.	295.	308.	320.	384.
74810-16	G		268.	294.	301.	318.	330.	389.
74826-11	NG		278.	294.	301.	310.	309.	305.
74826-08	G		269.	293.	307.	331.	343.	412.
74829-11	G		278.	307.	315.	327.	346.	423.
74840-03	G		303.	327.	334.	359.	363.	407.
74841-12	G		237.	258.	265.	285.	295.	355.
74844-05	NG		292.	286.	292.	293.	301.	304.
74844-07	G		251.	271.	285.	301.	310.	377.
74845-07	G		259.	277.	291.	297.	307.	368.

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 194 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

PAGE 2

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 1:		0 PPM					
74854-08	NG	269.	285.	296.	306.	295.	296.
74864-15	NG	242.	254.	262.	274.	279.	264.
74867-07	G	318.	349.	363.	373.	393.	429.
MEAN		275.	294.	304.	323.	333.	394.
S.D.		21.3	22.5	23.0	22.7	24.4	23.6
N		22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 2:		500 PPM					
74742-18	G	207.	222.	230.	243.	256.	317.
74746-10	G	313.	326.	339.	356.	367.	443.
74753-12	G	277.	305.	312.	330.	349.	424.
74761-12	G	232.	246.	253.	267.	276.	330.
74762-11	G	261.	273.	281.	298.	306.	380.
74782-09	G	226.	237.	245.	259.	266.	328.
74785-08	G	258.	272.	278.	295.	305.	355.
74790-15	G	237.	259.	272.	299.	299.	375.
74790-14	G	277.	283.	293.	310.	317.	371.
74796-15	G	344.	364.	363.	399.	400.	470.
74797-12	NG	241.	239.	254.	250.	253.	248.
74798-13	G	256.	274.	285.	307.	319.	387.
74798-12	G	282.	310.	322.	337.	354.	429.
74802-10	G	276.	292.	300.	316.	325.	395.
74809-08	G	248.	261.	269.	282.	300.	371.
74816-12	G	280.	296.	300.	320.	334.	413.
74819-10	G	278.	284.	290.	308.	317.	398.
74823-12	G	283.	295.	301.	314.	333.	402.
74835-11	NG	192.	217.	228.	239.	216.	223.
74835-07	G	263.	278.	292.	309.	317.	389.
74838-11	G	260.	279.	291.	302.	317.	406.
74839-18	NG	278.	292.	304.	315.	296.	295.
74846-07	G	258.	278.	295.	310.	315.	381.
74856-15	G	243.	265.	280.	297.	312.	389.
74859-09	G	262.	284.	290.	310.	324.	402.
74859-12	G	293.	307.	318.	331.	346.	404.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 194 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHTS DURING GESTATION [G]

PAGE 4

PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 2:		500 PPM					
74861-05	G	237.	255.	257.	271.	279.	312.
74869-04	G	287.	305.	306.	335.	352.	428.
MEAN		266.	282.	290.	308.	319.	388.
S.D.		28.7	29.4	28.7	31.8	32.1	38.6
N		25	25	25	25	25	25

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 3:		1000 PPM					
74738-07	G	280.	294.	296.	312.	325.	370.
74738-12	G	272.	288.	295.	311.	322.	382.
74739-08	NG	290.	298.	308.	300.	306.	301.
74748-11	G	250.	273.	285.	304.	313.	385.
74752-10	G	302.	327.	334.	359.	370.	446.
74780-04	G	296.	321.	339.	365.	377.	456.
74791-13	G	225.	241.	248.	263.	271.	327.
74793-14	G	267.	267.	279.	297.	310.	352.
74795-09	NG	299.	296.	307.	310.	313.	311.
74799-14	G	237.	252.	258.	276.	288.	352.
74806-11	G	270.	280.	292.	312.	317.	383.
74820-12	G	245.	266.	279.	302.	313.	376.
74821-09	G	288.	304.	319.	329.	345.	412.
74821-07	G	262.	283.	293.	311.	323.	410.
74830-11	NG	272.	298.	302.	319.	305.	309.
74831-12	G	279.	298.	312.	329.	337.	418.
74834-07	G	243.	270.	279.	298.	304.	363.
74847-09	G	295.	317.	327.	351.	351.	416.
74848-04	G	295.	308.	322.	337.	349.	440.
74849-07	G	250.	266.	285.	303.	322.	382.
74850-11	G	240.	260.	219.	276.	261.	358.
74850-14	G	267.	278.	283.	302.	288.	338.
74855-11	G	280.	284.	298.	317.	333.	402.
74858-14	NG	289.	309.	317.	331.	314.	316.
74868-20	G	252.	274.	287.	308.	318.	381.
74871-09	G	290.	300.	320.	316.	345.	397.
MEAN		268.	284.	293.	313.	322.	388.
S.D.		22.2	22.6	28.6	25.4	29.0	34.3
N		22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0	4	7	11	14	20
DAMS FROM GROUP 4:		2500 PPM					
74751-13	G	272.	284.	298.	315.	329.	395.
74754-15	G	269.	290.	296.	318.	330.	411.
74768-11	G	307.	316.	323.	343.	354.	436.
74769-08	G	261.	275.	286.	304.	312.	382.
74770-11	G	296.	311.	321.	343.	358.	414.
74770-10	G	320.	349.	357.	384.	400.	490.
74786-10	G	264.	281.	294.	321.	330.	428.
74792-12	G	259.	276.	284.	299.	313.	385.
74807-08	G	271.	284.	291.	315.	328.	404.
74811-13	G	266.	278.	284.	304.	320.	388.
74813-12	NG	242.	243.	242.	251.	256.	251.
74817-13	G	319.	338.	315.	372.	381.	478.
74822-08	G	263.	287.	298.	324.	336.	419.
74827-11	G	238.	249.	253.	272.	289.	347.
74832-07	G	240.	255.	263.	273.	287.	356.
74833-11	G	268.	288.	300.	321.	333.	401.
74836-12	G	342.	346.	351.	371.	389.	467.
74836-11	G	315.	329.	335.	359.	360.	441.
74853-11	G	273.	291.	302.	319.	330.	398.
74853-12	G	298.	321.	327.	350.	361.	379.
74857-09	G	285.	302.	310.	325.	345.	401.
74860-08	G	288.	305.	314.	337.	340.	400.
74862-13	G	265.	287.	300.	314.	323.	362.
74866-16	G	315.	329.	333.	355.	361.	424.
74870-03	G	349.	375.	392.	407.	409.	487.
MEAN		285.	302.	309.	331.	342.	412.
S.D.		29.9	30.8	30.3	32.7	31.2	39.0
N		24	24	24	24	24	24

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

TABLE 195 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 1:		0 PPM							
74737-10	G	13.	6.	23.	11.	74.	127.	DELIVERED	
74740-07	NG	1.	-1.	6.	9.	10.	25.	FAILED TO DELIVER DAY 56	
74757-11	NG	7.	-7.	8.	3.	4.	15.	FAILED TO DELIVER DAY 59	
74759-09	G	17.	8.	23.	3.	66.	117.	DELIVERED	
74764-10	G	9.	5.	18.	0.	73.	105.	DELIVERED	
74767-16	G	20.	7.	21.	2.	65.	115.	DELIVERED	
74767-10	G	16.	13.	22.	16.	51.	118.	DELIVERED	
74772-09	G	21.	10.	27.	12.	60.	130.	DELIVERED	
74773-15	G	23.	-12.	35.	9.	27.	82.	DELIVERED	
74773-08	G	14.	17.	21.	6.	68.	126.	DELIVERED	
74774-15	NG	3.	-16.	18.	0.	13.	18.	FAILED TO DELIVER DAY 59	
74789-10	G	2.	25.	18.	24.	59.	128.	DELIVERED	
74789-09	G	17.	8.	26.	-5.	77.	123.	DELIVERED	
74804-11	G	17.	13.	10.	11.	42.	93.	DELIVERED	
74804-08	G	22.	10.	13.	12.	85.	142.	DELIVERED	
74808-13	G	25.	7.	14.	14.	57.	117.	DELIVERED	
74808-11	G	24.	10.	13.	12.	64.	123.	DELIVERED	
74810-16	G	26.	7.	17.	12.	59.	121.	DELIVERED	
74826-11	NG	16.	7.	9.	-1.	-4.	27.	FAILED TO DELIVER DAY 60	
74826-08	G	24.	14.	24.	12.	69.	143.	DELIVERED	
74829-11	G	29.	8.	12.	19.	77.	145.	DELIVERED	
74840-03	G	24.	7.	25.	4.	44.	104.	DELIVERED	
74841-12	G	21.	7.	20.	10.	60.	118.	DELIVERED	
74844-05	NG	-6.	6.	1.	8.	3.	12.	FAILED TO DELIVER DAY 61	
74844-07	G	20.	14.	16.	9.	67.	126.	DELIVERED	
74845-07	G	18.	14.	6.	10.	61.	109.	DELIVERED	

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 195 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 2

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 1:		0 PPM					
74854-08	NG	16.	11.	10.	-11.	1.	27. FAILED TO DELIVER DAY 60
74864-15	NG	12.	8.	12.	5.	-15.	22. FAILED TO DELIVER DAY 55
74867-07	G	31.	14.	10.	20.	36.	111. DELIVERED
MEAN		20.	10.	19.	10.	61.	119.
S.D.		6.5	6.7	6.8	6.7	14.1	15.2
N		22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:		500 PPM					
74742-18	G	15.	8.	13.	13.	61.	110. DELIVERED
74746-10	G	13.	13.	17.	11.	76.	130. DELIVERED
74753-12	G	28.	7.	18.	19.	75.	147. DELIVERED
74761-12	G	14.	7.	14.	9.	54.	98. DELIVERED
74762-11	G	12.	8.	17.	8.	74.	119. DELIVERED
74782-09	G	11.	8.	14.	7.	62.	102. DELIVERED
74785-08	G	14.	6.	17.	10.	50.	97. DELIVERED
74790-15	G	22.	13.	27.	0.	76.	138. DELIVERED
74790-14	G	6.	10.	17.	7.	54.	94. DELIVERED
74796-15	G	20.	-1.	36.	1.	70.	126. DELIVERED
74797-12	NG	-2.	15.	-4.	3.	-5.	7. FAILED TO DELIVER DAY 53
74798-13	G	18.	11.	22.	12.	68.	131. DELIVERED
74798-12	G	28.	12.	15.	17.	75.	147. DELIVERED
74802-10	G	16.	8.	16.	9.	70.	119. DELIVERED
74809-08	G	13.	8.	13.	18.	71.	123. DELIVERED
74816-12	G	16.	4.	20.	14.	79.	133. DELIVERED
74819-10	G	6.	6.	18.	9.	81.	120. DELIVERED
74823-12	G	12.	6.	13.	19.	69.	119. DELIVERED
74835-11	NG	25.	11.	11.	-23.	7.	31. FAILED TO DELIVER DAY 58
74835-07	G	15.	14.	17.	8.	72.	126. DELIVERED
74838-11	G	19.	12.	11.	15.	89.	146. DELIVERED
74839-18	NG	14.	12.	11.	-19.	-1.	17. FAILED TO DELIVER DAY 53
74846-07	G	20.	17.	15.	5.	66.	123. DELIVERED
74856-15	G	22.	15.	17.	15.	77.	146. DELIVERED
74859-09	G	22.	6.	20.	14.	78.	140. DELIVERED
74859-12	G	14.	11.	13.	15.	58.	111. DELIVERED

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 195 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 4

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:		500 PPM					
74861-05	G	18.	2.	14.	8.	33.	75. DELIVERED
74869-04	G	18.	1.	29.	17.	76.	141. DELIVERED
MEAN		16.	8.	18.	11.	69.	122.
S.D.		5.5	4.4	5.7	5.2	11.9	18.9
N		25	25	25	25	25	25

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20		
DAMS FROM GROUP 3:		1000 PPM							
74738-07	G	14.	2.	16.	13.	45.	90.	DELIVERED	
74738-12	G	16.	7.	16.	11.	60.	110.	DELIVERED	
74739-08	NG	8.	10.	-8.	6.	-5.	11.	FAILED TO DELIVER DAY 55	
74748-11	G	23.	12.	19.	9.	72.	135.	DELIVERED	
74752-10	G	25.	7.	25.	11.	76.	144.	DELIVERED	
74780-04	G	25.	18.	26.	12.	79.	160.	DELIVERED	
74791-13	G	16.	7.	15.	8.	56.	102.	DELIVERED	
74793-14	G	0.	12.	18.	13.	42.	85.	DELIVERED	
74795-09	NG	-3.	11.	3.	3.	-2.	12.	FAILED TO DELIVER DAY 58	
74799-14	G	15.	6.	18.	12.	64.	115.	DELIVERED	
74806-11	G	10.	12.	20.	5.	66.	113.	DELIVERED	
74820-12	G	21.	13.	23.	11.	63.	131.	DELIVERED	
74821-09	G	16.	15.	10.	16.	67.	124.	DELIVERED	
74821-07	G	21.	10.	18.	12.	87.	148.	DELIVERED	
74830-11	NG	26.	4.	17.	-14.	4.	37.	FAILED TO DELIVER DAY 59	
74831-12	G	19.	14.	17.	8.	81.	139.	DELIVERED	
74834-07	G	27.	9.	19.	6.	59.	120.	DELIVERED	
74847-09	G	22.	10.	24.	0.	65.	121.	DELIVERED	
74848-04	G	13.	14.	15.	12.	91.	145.	DELIVERED	
74849-07	G	16.	19.	18.	19.	60.	132.	DELIVERED	
74850-11	G	20.	-41.	57.	-15.	97.	118.	DELIVERED	
74850-14	G	11.	5.	19.	-14.	50.	71.	DELIVERED	
74855-11	G	4.	14.	19.	16.	69.	122.	DELIVERED	
74858-14	NG	20.	8.	14.	-17.	2.	27.	FAILED TO DELIVER DAY 60	
74868-20	G	22.	13.	21.	10.	63.	129.	DELIVERED	
74871-09	G	10.	20.	-4.	29.	52.	107.	DELIVERED	
MEAN		17.	9.	20.	9.	67.	121.		
S.D.		6.8	12.1	10.3	9.5	14.3	21.5		
N		22	22	22	22	22	22		

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 195 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHT CHANGES DURING GESTATION [G]

PAGE 6

PREGNANCY STATUS		DAY 0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:		2500 PPM					
74751-13	G	12.	14.	17.	14.	66.	123. DELIVERED
74754-15	G	21.	6.	22.	12.	81.	142. DELIVERED
74768-11	G	9.	7.	20.	11.	82.	129. DELIVERED
74769-08	G	14.	11.	18.	8.	70.	121. DELIVERED
74770-11	G	15.	10.	22.	15.	56.	118. DELIVERED
74770-10	G	29.	8.	27.	16.	90.	170. DELIVERED
74786-10	G	17.	13.	27.	9.	98.	164. DELIVERED
74792-12	G	17.	8.	15.	14.	72.	126. DELIVERED
74807-08	G	13.	7.	24.	13.	76.	133. DELIVERED
74811-13	G	12.	6.	20.	16.	68.	122. DELIVERED
74813-12	NG	1.	-1.	9.	5.	-5.	9. FAILED TO DELIVER DAY 63
74817-13	G	19.	-23.	57.	9.	97.	159. DELIVERED
74822-08	G	24.	11.	26.	12.	83.	156. DELIVERED
74827-11	G	11.	4.	19.	17.	58.	109. DELIVERED
74832-07	G	15.	8.	10.	14.	69.	116. DELIVERED
74833-11	G	20.	12.	21.	12.	68.	133. DELIVERED
74836-12	G	4.	5.	20.	18.	78.	125. DELIVERED
74836-11	G	14.	6.	24.	1.	81.	126. DELIVERED
74853-11	G	18.	11.	17.	11.	68.	125. DELIVERED
74853-12	G	23.	6.	23.	11.	18.	81. DELIVERED
74857-09	G	17.	8.	15.	20.	56.	116. DELIVERED
74860-08	G	17.	9.	23.	3.	60.	112. DELIVERED
74862-13	G	22.	13.	14.	9.	39.	97. DELIVERED
74866-16	G	14.	4.	22.	6.	63.	109. DELIVERED
74870-03	G	26.	17.	15.	2.	78.	138. DELIVERED
MEAN		17.	8.	22.	11.	70.	127.
S.D.		5.6	7.3	8.7	4.9	17.5	20.6
N		24	24	24	24	24	24

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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	DAY 1	4	7	14	21
-----					
DAMS FROM GROUP 1:	0 PPM				
-----					
74737-10	294.	313.	330.	360.	334.
74759-09	272.	286.	299.	323.	291.
74764-10	313.	321.	324.	341.	334.
74767-16	299.	294.	294.	317.	295.
74767-10	339.	350.	341.	368.	362.
74772-09	317.	351.	359.	383.	385.
74773-15	296.	300.	310.	341.	333.
74773-08	310.	318.	324.	355.	339.
74789-10	284.	297.	307.	344.	342.
74789-09	281.	296.	294.	326.	319.
74804-11	303.	293.	298.	314.	328.
74804-08	281.	294.	310.	341.	342.
74808-13	310.	334.	346.	357.	357.
74808-11	290.	322.	333.	337.	332.
74810-16	305.	314.	323.	343.	332.
74826-08	307.	328.	357.	388.	359.
74829-11	305.	330.	342.	367.	360.
74840-03	341.	357.	382.	375.	374.
74841-12	266.	304.	310.	331.	308.
74844-07	286.	303.	309.	340.	321.
74845-07	288.	279.	308.	331.	325.
74867-07	355.	374.	379.	404.	370.
MEAN	302.	316.	326.	349.	338.
S.D.	22.2	25.1	26.1	23.8	24.3
N	22	22	22	22	22

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	DAY 1	4	7	14	21
-----					
DAMS FROM GROUP 2:	500 PPM				
-----					
74742-18	241.	251.	264.	269.	274.
74746-10	331.	341.	347.	365.	350.
74753-12	306.	320.	329.	363.	365.
74761-12	246.	249.	257.	277.	286.
74762-11	284.	292.	298.	309.	304.
74782-09	237.	237.	235.	250.	269.
74785-08	272.	275.	292.	309.	300.
74790-15	282.	299.	305.	337.	331.
74790-14	295.	307.	310.	349.	327.
74796-15	358.	374.	369.	389.	391.
74798-13	295.	303.	320.	337.	313.
74798-12	332.	340.	345.	378.	357.
74802-10	293.	304.	306.	329.	315.
74809-08	276.	297.	295.	330.	341.
74816-12	305.	323.	322.	354.	324.
74819-10	293.	310.	326.	350.	335.
74823-12	306.	303.	314.	343.	326.
74835-07	285.	300.	299.	326.	322.
74838-11	297.	311.	307.	325.	314.
74846-07	284.	302.	304.	335.	339.
74856-15	289.	308.	316.	341.	333.
74859-09	297.	317.	312.	351.	357.
74859-12	326.	337.	348.	367.	361.
74861-05	266.	267.	283.	291.	NA
74869-04	308.	292.	308.	330.	340.
MEAN	292.	302.	308.	332.	328.
S.D.	28.0	30.6	29.3	33.5	29.0
N	25	25	25	25	24
NA = NOT APPLICABLE					

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TOTAL LITTER LOSS DAY 14

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	DAY 1	4	7	14	21
<hr/>					
DAMS FROM GROUP 3:	1000 PPM				
<hr/>					
74738-07	275.	307.	313.	327.	341.
74738-12	303.	306.	313.	326.	328.
74743-08	313.	319.	314.	350.	342.
74748-11	285.	287.	293.	297.	316.
74752-10	338.	344.	346.	344.	338.
74780-04	348.	363.	373.	412.	395.
74791-13	256.	259.	263.	301.	303.
74793-14	297.	310.	307.	333.	334.
74799-14	270.	276.	276.	307.	290.
74806-11	287.	292.	293.	328.	309.
74820-12	289.	294.	297.	318.	311.
74821-09	327.	341.	342.	356.	345.
74821-07	302.	321.	327.	332.	329.
74831-12	295.	291.	294.	312.	312.
74834-07	295.	282.	297.	325.	324.
74847-09	327.	353.	349.	373.	350.
74848-04	302.	332.	338.	368.	374.
74849-07	279.	295.	305.	326.	315.
74850-11	279.	277.	286.	299.	302.
74850-14	279.	288.	302.	323.	322.
74855-11	311.	320.	311.	324.	353.
74868-20	294.	291.	292.	331.	334.
74871-09	295.	325.	335.	367.	354.
MEAN	298.	308.	312.	334.	331.
S.D.	22.2	26.8	26.1	27.3	24.3
N	23	23	23	23	23

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 196 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL BODY WEIGHTS DURING LACTATION [G]

PAGE 4

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	DAY 1	4	7	14	21
-----					
DAMS FROM GROUP 4:	2500 PPM				
-----					
74751-13	306.	312.	320.	334.	324.
74754-15	296.	313.	335.	355.	324.
74768-11	348.	352.	354.	375.	361.
74769-08	287.	294.	305.	330.	341.
74770-11	319.	333.	347.	383.	388.
74770-10	381.	398.	392.	409.	385.
74786-10	284.	301.	306.	333.	328.
74792-12	288.	313.	306.	323.	306.
74807-08	294.	320.	317.	303.	315.
74811-13	293.	316.	321.	320.	324.
74817-13	366.	381.	393.	414.	399.
74822-08	308.	330.	336.	364.	334.
74827-11	265.	289.	294.	314.	309.
74832-07	260.	284.	272.	290.	293.
74833-11	303.	329.	337.	366.	340.
74836-12	341.	337.	344.	381.	369.
74836-11	346.	343.	355.	374.	360.
74853-11	304.	311.	327.	319.	325.
74853-12	331.	346.	346.	368.	354.
74857-09	318.	336.	349.	365.	376.
74860-08	312.	328.	340.	355.	354.
74862-13	302.	319.	322.	351.	341.
74866-16	328.	342.	340.	359.	351.
74870-03	364.	374.	395.	392.	395.
MEAN	314.	329.	336.	353.	346.
S.D.	31.2	27.9	30.1	32.4	29.3
N	24	24	24	24	24

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PLBWv4.0  
 09/25/2002

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 1:	0 PPM				
-----					
74737-10	19.	17.	30.	-26.	40.
74759-09	14.	13.	24.	-32.	19.
74764-10	8.	3.	17.	-7.	21.
74767-16	-5.	0.	23.	-22.	-4.
74767-10	11.	-9.	27.	-6.	23.
74772-09	34.	8.	24.	2.	68.
74773-15	4.	10.	31.	-8.	37.
74773-08	8.	6.	31.	-16.	29.
74789-10	13.	10.	37.	-2.	58.
74789-09	15.	-2.	32.	-7.	38.
74804-11	-10.	5.	16.	14.	25.
74804-08	13.	16.	31.	1.	61.
74808-13	24.	12.	11.	0.	47.
74808-11	32.	11.	4.	-5.	42.
74810-16	9.	9.	20.	-11.	27.
74826-08	21.	29.	31.	-29.	52.
74829-11	25.	12.	25.	-7.	55.
74840-03	16.	25.	-7.	-1.	33.
74841-12	38.	6.	21.	-23.	42.
74844-07	17.	6.	31.	-19.	35.
74845-07	-9.	29.	23.	-6.	37.
74867-07	19.	5.	25.	-34.	15.
MEAN	14.	10.	23.	-11.	36.
S.D.	12.5	9.3	10.2	12.5	16.8
N	22	22	22	22	22

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 2:	500 PPM				
-----	-----	-----	-----	-----	-----
74742-18	10.	13.	5.	5.	33.
74746-10	10.	6.	18.	-15.	19.
74753-12	14.	9.	34.	2.	59.
74761-12	3.	8.	20.	9.	40.
74762-11	8.	6.	11.	-5.	20.
74782-09	0.	-2.	15.	19.	32.
74785-08	3.	17.	17.	-9.	28.
74790-15	17.	6.	32.	-6.	49.
74790-14	12.	3.	39.	-22.	32.
74796-15	16.	-5.	20.	2.	33.
74798-13	8.	17.	17.	-24.	18.
74798-12	8.	5.	33.	-21.	25.
74802-10	11.	2.	23.	-14.	22.
74809-08	21.	-2.	35.	11.	65.
74816-12	18.	-1.	32.	-30.	19.
74819-10	17.	16.	24.	-15.	42.
74823-12	-3.	11.	29.	-17.	20.
74835-07	15.	-1.	27.	-4.	37.
74838-11	14.	-4.	18.	-11.	17.
74846-07	18.	2.	31.	4.	55.
74856-15	19.	8.	25.	-8.	44.
74859-09	20.	-5.	39.	6.	60.
74859-12	11.	11.	19.	-6.	35.
74861-05	1.	16.	8.	NA	NA
74869-04	-16.	16.	22.	10.	32.
					TOTAL LITTER LOSS DAY 14
MEAN	10.	6.	24.	-6.	35.
S.D.	8.6	7.3	9.3	12.6	14.4
N	25	25	25	24	24

NA = NOT APPLICABLE

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 3:	1000 PPM				
-----					
74738-07	32.	6.	14.	14.	66.
74738-12	3.	7.	13.	2.	25.
74743-08	6.	-5.	36.	-8.	29.
74748-11	2.	6.	4.	19.	31.
74752-10	6.	2.	-2.	-6.	0.
74780-04	15.	10.	39.	-17.	47.
74791-13	3.	4.	38.	2.	47.
74793-14	13.	-3.	26.	1.	37.
74799-14	6.	0.	31.	-17.	20.
74806-11	5.	1.	35.	-19.	22.
74820-12	5.	3.	21.	-7.	22.
74821-09	14.	1.	14.	-11.	18.
74821-07	19.	6.	5.	-3.	27.
74831-12	-4.	3.	18.	0.	17.
74834-07	-13.	15.	28.	-1.	29.
74847-09	26.	-4.	24.	-23.	23.
74848-04	30.	6.	30.	6.	72.
74849-07	16.	10.	21.	-11.	36.
74850-11	-2.	9.	13.	3.	23.
74850-14	9.	14.	21.	-1.	43.
74855-11	9.	-9.	13.	29.	42.
74868-20	-3.	1.	39.	3.	40.
74871-09	30.	10.	32.	-13.	59.
MEAN	10.	4.	22.	-3.	34.
S.D.	11.7	6.0	11.8	12.3	16.8
N	23	23	23	23	23

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 4:	2500 PPM				
-----					
74751-13	6.	8.	14.	-10.	18.
74754-15	17.	22.	20.	-31.	28.
74768-11	4.	2.	21.	-14.	13.
74769-08	7.	11.	25.	11.	54.
74770-11	14.	14.	36.	5.	69.
74770-10	17.	-6.	17.	-24.	4.
74786-10	17.	5.	27.	-5.	44.
74792-12	25.	-7.	17.	-17.	18.
74807-08	26.	-3.	-14.	12.	21.
74811-13	23.	5.	-1.	4.	31.
74817-13	15.	12.	21.	-15.	33.
74822-08	22.	6.	28.	-30.	26.
74827-11	24.	5.	20.	-5.	44.
74832-07	24.	-12.	18.	3.	33.
74833-11	26.	8.	29.	-26.	37.
74836-12	-4.	7.	37.	-12.	28.
74836-11	-3.	12.	19.	-14.	14.
74853-11	7.	16.	-8.	6.	21.
74853-12	15.	0.	22.	-14.	23.
74857-09	18.	13.	16.	11.	58.
74860-08	16.	12.	15.	-1.	42.
74862-13	17.	3.	29.	-10.	39.
74866-16	14.	-2.	19.	-8.	23.
74870-03	10.	21.	-3.	3.	31.
MEAN	15.	6.	18.	-8.	31.
S.D.	8.6	8.5	12.7	12.8	15.2
N	24	24	24	24	24

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-03	27.	30.	29.	29.	28.	29.	29.	28.
74740-02	22.	25.	25.	25.	26.	26.	26.	25.
74757-08	27.	29.	32.	30.	28.	27.	27.	27.
74757-05	25.	29.	30.	30.	31.	30.	30.	29.
74759-02	22.	24.	26.	27.	26.	26.	26.	25.
74759-05	22.	25.	25.	24.	25.	25.	24.	24.
74764-02	24.	27.	28.	28.	30.	29.	28.	29.
74767-07	22.	26.	27.	25.	26.	25.	25.	24.
74772-02	21.	25.	26.	27.	28.	28.	28.	27.
74772-08	22.	29.	29.	32.	30.	30.	30.	29.
74773-02	27.	29.	28.	27.	27.	27.	26.	26.
74774-03	23.	28.	29.	31.	32.	30.	30.	29.
74789-04	18.	22.	24.	26.	25.	24.	24.	24.
74804-04	19.	23.	23.	24.	25.	25.	24.	25.
74808-01	25.	27.	26.	27.	28.	27.	28.	29.
74810-07	22.	27.	29.	29.	30.	30.	31.	30.
74810-02	25.	29.	31.	30.	30.	30.	30.	29.
74826-05	24.	28.	29.	29.	28.	29.	30.	29.
74829-05	25.	26.	26.	26.	26.	26.	26.	25.
74840-02	24.	28.	28.	26.	27.	27.	27.	27.
74841-02	24.	29.	30.	31.	31.	29.	29.	28.
74841-06	21.	24.	26.	26.	26.	26.	25.	26.
74844-04	22.	24.	26.	25.	25.	23.	25.	25.
74845-01	23.	26.	29.	30.	29.	28.	26.	28.
74845-03	21.	24.	25.	25.	26.	26.	26.	25.
74854-06	21.	25.	26.	25.	28.	25.	29.	27.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 2

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	0 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74854-02	24.	27.	29.	30.	31.	30.	31.	29.
74864-06	23.	27.	28.	28.	29.	28.	27.	26.
74867-03	29.	34.	33.	31.	31.	29.	31.	31.
74867-01	29.	32.	34.	34.	34.	34.	34.	34.
MEAN	23.	27.	28.	28.	28.	28.	28.	27.
S.D.	2.6	2.7	2.6	2.6	2.4	2.4	2.5	2.4
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-03	23.	26.	26.	28.	28.	27.	27.	29.
74746-06	17.	20.	22.	23.	24.	23.	23.	23.
74753-04	23.	27.	27.	28.	29.	29.	28.	29.
74753-02	21.	25.	25.	26.	25.	26.	25.	24.
74761-09	15.	18.	20.	22.	22.	22.	23.	22.
74762-04	18.	21.	21.	21.	21.	22.	22.	21.
74790-09	23.	26.	27.	26.	26.	25.	24.	25.
74782-04	17.	21.	22.	24.	24.	24.	24.	24.
74785-04	24.	27.	27.	28.	28.	27.	26.	26.
74790-02	24.	26.	28.	28.	29.	29.	27.	28.
74796-07	20.	23.	24.	25.	25.	25.	25.	23.
74797-09	25.	27.	27.	27.	28.	29.	29.	28.
74798-04	20.	23.	24.	23.	23.	24.	25.	24.
74802-05	26.	29.	29.	30.	30.	29.	29.	27.
74802-08	24.	27.	26.	27.	26.	25.	25.	25.
74809-09	25.	26.	29.	29.	29.	29.	28.	28.
74816-05	23.	23.	24.	24.	24.	24.	25.	25.
74819-03	22.	25.	26.	26.	25.	26.	25.	26.
74823-01	23.	24.	24.	23.	24.	23.	22.	23.
74824-05	18.	22.	23.	26.	25.	24.	25.	25.
74835-03	25.	28.	28.	28.	28.	28.	27.	27.
74838-06	25.	28.	26.	24.	26.	26.	26.	25.
74839-02	24.	26.	26.	26.	26.	25.	26.	26.
74846-03	27.	28.	29.	29.	30.	28.	28.	28.
74856-06	20.	24.	24.	25.	25.	23.	22.	23.
74859-06	19.	23.	25.	25.	25.	25.	24.	23.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74861-02	17.	20.	22.	23.	23.	22.	22.	22.
74863-05	25.	27.	28.	28.	28.	27.	27.	27.
74863-02	25.	27.	31.	30.	29.	28.	28.	27.
74869-02	25.	25.	28.	26.	27.	26.	26.	25.
MEAN	22.	25.	26.	26.	26.	26.	25.	25.
S.D.	3.2	2.8	2.7	2.4	2.4	2.3	2.1	2.2
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	1000 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-02	20.	23.	26.	25.	26.	24.	23.	24.
74739-04	24.	26.	28.	26.	28.	28.	26.	25.
74743-04	21.	22.	22.	21.	23.	23.	22.	21.
74744-02	17.	18.	19.	22.	23.	22.	22.	22.
74748-05	17.	18.	19.	24.	23.	22.	22.	22.
74748-02	16.	18.	19.	20.	22.	20.	22.	21.
74752-05	22.	24.	23.	24.	25.	25.	25.	24.
74766-02	24.	16.	28.	26.	26.	24.	23.	23.
74780-03	22.	25.	26.	27.	30.	28.	29.	28.
74791-05	19.	22.	22.	24.	24.	24.	23.	23.
74791-02	18.	22.	23.	24.	24.	24.	23.	23.
74793-05	23.	24.	24.	24.	25.	24.	25.	25.
74795-06	24.	27.	28.	27.	26.	27.	26.	26.
74799-03	17.	24.	26.	27.	28.	25.	25.	25.
74801-10	26.	29.	28.	28.	27.	28.	27.	24.
74806-06	21.	23.	25.	25.	25.	24.	23.	23.
74806-03	23.	25.	25.	26.	27.	27.	26.	25.
74820-02	20.	22.	23.	24.	26.	26.	25.	25.
74821-02	18.	23.	25.	24.	23.	25.	24.	25.
74830-02	23.	26.	27.	25.	26.	25.	26.	26.
74831-02	24.	27.	26.	27.	20.	23.	22.	33.
74834-04	26.	26.	26.	26.	28.	28.	28.	27.
74847-03	25.	27.	28.	28.	29.	27.	28.	27.
74848-03	24.	26.	27.	27.	28.	28.	28.	28.
74849-03	23.	26.	26.	27.	27.	27.	28.	28.
74850-05	20.	23.	25.	23.	24.	24.	26.	25.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	1000 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-08	26.	27.	26.	28.	28.	27.	26.	28.
74858-04	25.	27.	26.	26.	26.	27.	26.	26.
74868-02	15.	20.	22.	23.	24.	25.	24.	25.
74871-06	22.	26.	25.	24.	24.	23.	24.	23.
MEAN	22.	24.	25.	25.	26.	25.	25.	25.
S.D.	3.2	3.2	2.7	2.0	2.3	2.1	2.1	2.5
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-04	23.	26.	27.	26.	27.	23.	24.	25.
74747-03	25.	27.	29.	28.	30.	29.	29.	29.
74751-05	24.	27.	26.	26.	27.	26.	25.	25.
74751-02	24.	27.	27.	27.	27.	27.	26.	26.
74754-09	22.	24.	26.	29.	26.	25.	25.	25.
74755-05	26.	28.	29.	31.	30.	29.	28.	27.
74768-02	25.	27.	26.	28.	28.	27.	26.	27.
74769-07	17.	21.	22.	24.	24.	24.	24.	23.
74770-06	28.	30.	31.	30.	32.	29.	32.	31.
74786-05	23.	26.	28.	30.	29.	31.	32.	31.
74786-07	24.	26.	27.	26.	26.	25.	24.	22.
74787-06	21.	22.	23.	24.	23.	23.	24.	24.
74792-03	22.	24.	24.	25.	26.	25.	25.	25.
74807-05	15.	17.	19.	20.	20.	21.	22.	20.
74811-01	25.	26.	27.	29.	29.	29.	29.	29.
74813-08	22.	23.	23.	27.	27.	26.	25.	26.
74817-04	22.	27.	28.	26.	26.	24.	22.	24.
74822-15	23.	24.	23.	23.	22.	22.	22.	23.
74822-14	26.	27.	26.	25.	26.	25.	26.	25.
74827-03	21.	24.	26.	24.	23.	22.	21.	22.
74832-03	25.	28.	29.	27.	27.	27.	29.	29.
74833-02	22.	25.	25.	26.	27.	27.	27.	27.
74836-08	24.	25.	27.	27.	27.	28.	27.	28.
74853-06	24.	25.	26.	27.	27.	25.	25.	25.
74857-10	25.	27.	28.	27.	28.	29.	29.	29.
74860-03	26.	28.	28.	28.	28.	27.	27.	27.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 8

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-02	21.	24.	24.	25.	25.	24.	25.	26.
74862-08	20.	23.	23.	23.	24.	24.	24.	23.
74866-01	23.	26.	29.	29.	28.	27.	29.	29.
74870-06	24.	27.	27.	29.	30.	29.	28.	28.
MEAN	23.	25.	26.	27.	27.	26.	26.	26.
S.D.	2.7	2.5	2.6	2.4	2.6	2.5	2.8	2.7
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 198 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 9

DAY	MALE GROUP: 0 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-03	29.	27.	NA	NA	28.	23.	25.	27.
74740-02	24.	24.	NA	NA	25.	24.	24.	24.
74757-08	27.	27.	NA	NA	28.	27.	25.	26.
74757-05	27.	28.	NA	NA	27.	26.	27.	26.
74759-02	24.	25.	NA	NA	27.	25.	24.	25.
74759-05	24.	23.	NA	NA	23.	23.	23.	23.
74764-02	28.	27.	NA	NA	27.	25.	25.	24.
74767-07	24.	25.	NA	NA	25.	22.	25.	24.
74772-02	27.	27.	NA	NA	26.	28.	28.	28.
74772-08	29.	28.	NA	NA	28.	27.	27.	27.
74773-02	26.	25.	NA	NA	25.	25.	23.	27.
74774-03	29.	28.	NA	NA	28.	27.	28.	27.
74789-04	24.	23.	NA	NA	24.	23.	22.	22.
74804-04	24.	24.	NA	NA	24.	24.	23.	23.
74808-01	28.	26.	NA	NA	29.	28.	27.	28.
74810-07	29.	28.	NA	NA	28.	27.	27.	25.
74810-02	29.	28.	NA	NA	29.	28.	27.	28.
74826-05	28.	27.	NA	NA	27.	24.	25.	24.
74829-05	25.	25.	NA	NA	25.	24.	24.	26.
74840-02	26.	26.	NA	NA	26.	24.	26.	26.
74841-02	28.	28.	NA	NA	26.	26.	25.	25.
74841-06	25.	25.	NA	NA	23.	25.	25.	24.
74844-04	25.	24.	NA	NA	24.	22.	23.	23.
74845-01	26.	26.	NA	NA	29.	29.	29.	27.
74845-03	26.	25.	NA	NA	25.	25.	24.	25.
74854-06	26.	25.	NA	NA	26.	24.	26.	25.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	0 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74854-02	29.	28.	NA	NA	30.	28.	27.	25.
74864-06	26.	26.	NA	NA	27.	25.	26.	29.
74867-03	30.	30.	NA	NA	29.	30.	30.	31.
74867-01	33.	32.	NA	NA	31.	30.	26.	31.
MEAN	27.	26.			27.	26.	26.	26.
S.D.	2.2	2.0			2.1	2.2	1.9	2.2
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 11

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74742-03	28.	26.	NA	NA	28.	26.	26.	28.
74746-06	23.	22.	NA	NA	22.	21.	21.	21.
74753-04	28.	29.	NA	NA	28.	28.	27.	27.
74753-02	24.	24.	NA	NA	23.	23.	22.	23.
74761-09	22.	23.	NA	NA	22.	21.	21.	21.
74762-04	22.	20.	NA	NA	21.	21.	20.	20.
74790-09	25.	25.	NA	NA	27.	26.	23.	24.
74782-04	22.	22.	NA	NA	21.	22.	21.	21.
74785-04	27.	26.	NA	NA	26.	26.	24.	25.
74790-02	28.	28.	NA	NA	30.	26.	29.	30.
74796-07	23.	21.	NA	NA	23.	23.	23.	23.
74797-09	28.	28.	NA	NA	27.	26.	27.	25.
74798-04	23.	24.	NA	NA	24.	23.	21.	22.
74802-05	27.	27.	NA	NA	22.	25.	24.	23.
74802-08	26.	24.	NA	NA	26.	21.	24.	25.
74809-09	26.	26.	NA	NA	26.	22.	25.	24.
74816-05	24.	24.	NA	NA	25.	23.	24.	23.
74819-03	26.	26.	NA	NA	25.	24.	25.	25.
74823-01	23.	23.	NA	NA	23.	20.	22.	24.
74824-05	24.	24.	NA	NA	26.	25.	25.	24.
74835-03	25.	26.	NA	NA	25.	24.	24.	24.
74838-06	24.	24.	NA	NA	25.	23.	24.	24.
74839-02	26.	25.	NA	NA	25.	25.	25.	26.
74846-03	27.	27.	NA	NA	29.	27.	25.	24.
74856-06	24.	23.	NA	NA	24.	23.	22.	21.
74859-06	22.	22.	NA	NA	22.	22.	22.	22.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74861-02	21.	22.	NA	NA	21.	21.	20.	22.
74863-05	26.	27.	NA	NA	26.	24.	24.	25.
74863-02	27.	27.	NA	NA	27.	26.	27.	28.
74869-02	26.	25.	NA	NA	25.	24.	25.	25.
MEAN	25.	25.			25.	24.	24.	24.
S.D.	2.1	2.2			2.4	2.1	2.2	2.3
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 198 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 13

DAY	MALE GROUP:		1000 PPM					
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74738-02	23.	23.	NA	NA	24.	22.	23.	23.
74739-04	25.	25.	NA	NA	25.	24.	25.	25.
74743-04	22.	21.	NA	NA	23.	22.	21.	21.
74744-02	22.	22.	NA	NA	24.	22.	22.	22.
74748-05	22.	22.	NA	NA	23.	23.	21.	21.
74748-02	21.	18.	NA	NA	20.	18.	20.	20.
74752-05	23.	23.	NA	NA	24.	25.	24.	24.
74766-02	23.	23.	NA	NA	23.	22.	22.	22.
74780-03	27.	27.	NA	NA	28.	26.	26.	25.
74791-05	23.	23.	NA	NA	23.	23.	23.	22.
74791-02	23.	23.	NA	NA	23.	22.	23.	23.
74793-05	24.	22.	NA	NA	23.	23.	22.	22.
74795-06	26.	24.	NA	NA	26.	25.	25.	25.
74799-03	26.	25.	NA	NA	27.	23.	25.	25.
74801-10	23.	25.	NA	NA	27.	21.	25.	26.
74806-06	23.	22.	NA	NA	24.	23.	24.	24.
74806-03	25.	24.	NA	NA	27.	26.	26.	27.
74820-02	24.	24.	NA	NA	24.	24.	24.	23.
74821-02	25.	26.	NA	NA	25.	23.	26.	26.
74830-02	25.	24.	NA	NA	26.	23.	25.	25.
74831-02	25.	27.	NA	NA	26.	24.	24.	25.
74834-04	27.	26.	NA	NA	28.	26.	28.	27.
74847-03	27.	24.	NA	NA	25.	22.	25.	26.
74848-03	29.	28.	NA	NA	28.	24.	26.	29.
74849-03	27.	27.	NA	NA	27.	26.	24.	25.
74850-05	24.	23.	NA	NA	25.	23.	24.	24.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 198 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	1000 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-08	27.	27.	NA	NA	27.	26.	27.	25.
74858-04	25.	25.	NA	NA	26.	23.	26.	27.
74868-02	23.	23.	NA	NA	21.	21.	21.	20.
74871-06	24.	23.	NA	NA	24.	24.	24.	23.
MEAN	24.	24.			25.	23.	24.	24.
S.D.	1.9	2.1			2.0	1.8	1.9	2.2
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 15

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-04	27.	28.	NA	NA	27.	25.	26.	25.
74747-03	28.	27.	NA	NA	28.	25.	24.	27.
74751-05	24.	25.	NA	NA	24.	25.	22.	26.
74751-02	26.	26.	NA	NA	27.	25.	25.	25.
74754-09	23.	23.	NA	NA	24.	20.	21.	23.
74755-05	29.	27.	NA	NA	26.	27.	26.	26.
74768-02	25.	24.	NA	NA	25.	24.	23.	24.
74769-07	21.	21.	NA	NA	23.	22.	21.	21.
74770-06	32.	30.	NA	NA	29.	26.	28.	29.
74786-05	32.	31.	NA	NA	30.	29.	31.	26.
74786-07	23.	24.	NA	NA	23.	22.	23.	21.
74787-06	23.	23.	NA	NA	24.	24.	19.	28.
74792-03	24.	25.	NA	NA	23.	24.	24.	23.
74807-05	20.	20.	NA	NA	20.	18.	19.	19.
74811-01	28.	27.	NA	NA	26.	25.	26.	25.
74813-08	26.	25.	NA	NA	24.	23.	24.	22.
74817-04	25.	25.	NA	NA	25.	24.	23.	24.
74822-15	22.	20.	NA	NA	21.	22.	22.	22.
74822-14	25.	26.	NA	NA	25.	24.	24.	25.
74827-03	21.	21.	NA	NA	21.	21.	21.	22.
74832-03	28.	26.	NA	NA	26.	24.	23.	24.
74833-02	27.	26.	NA	NA	27.	23.	27.	26.
74836-08	28.	27.	NA	NA	25.	26.	26.	26.
74853-06	25.	24.	NA	NA	25.	23.	24.	23.
74857-10	28.	28.	NA	NA	28.	27.	27.	27.
74860-03	26.	25.	NA	NA	25.	17.	26.	27.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	2500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-02	25.	25.	NA	NA	25.	26.	26.	27.
74862-08	23.	22.	NA	NA	23.	21.	21.	21.
74866-01	29.	28.	NA	NA	28.	28.	27.	28.
74870-06	28.	29.	NA	NA	30.	27.	28.	28.
MEAN	26.	25.			25.	24.	24.	25.
S.D.	3.0	2.8			2.5	2.7	2.8	2.5
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
ANIMAL					
74737-03	23.	24.	27.	SCHEDULED EUTH DAY	268
74740-02	24.	26.	23.	SCHEDULED EUTH DAY	269
74757-08	26.	26.	26.	SCHEDULED EUTH DAY	269
74757-05	25.	26.	27.	SCHEDULED EUTH DAY	267
74759-02	23.	21.	24.	SCHEDULED EUTH DAY	267
74759-05	21.	22.	22.	SCHEDULED EUTH DAY	269
74764-02	25.	23.	23.	SCHEDULED EUTH DAY	267
74767-07	22.	23.	24.	SCHEDULED EUTH DAY	266
74772-02	26.	26.	26.	SCHEDULED EUTH DAY	266
74772-08	26.	26.	26.	SCHEDULED EUTH DAY	266
74773-02	23.	24.	23.	SCHEDULED EUTH DAY	269
74774-03	24.	26.	26.	SCHEDULED EUTH DAY	266
74789-04	23.	20.	23.	SCHEDULED EUTH DAY	266
74804-04	23.	23.	22.	SCHEDULED EUTH DAY	269
74808-01	27.	27.	28.	SCHEDULED EUTH DAY	267
74810-07	24.	24.	27.	SCHEDULED EUTH DAY	268
74810-02	26.	26.	27.	SCHEDULED EUTH DAY	269
74826-05	23.	24.	24.	SCHEDULED EUTH DAY	267
74829-05	22.	21.	23.	SCHEDULED EUTH DAY	268
74840-02	22.	25.	27.	SCHEDULED EUTH DAY	268
74841-02	25.	24.	25.	SCHEDULED EUTH DAY	269
74841-06	21.	22.	21.	SCHEDULED EUTH DAY	268
74844-04	22.	22.	22.	SCHEDULED EUTH DAY	266
74845-01	27.	26.	26.	SCHEDULED EUTH DAY	267
74845-03	24.	24.	26.	SCHEDULED EUTH DAY	268
74854-06	23.	25.	24.	SCHEDULED EUTH DAY	266

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
-----					
ANIMAL					
74854-02	26.	28.	28.	SCHEDULED EUTH DAY	268
74864-06	27.	23.	26.	SCHEDULED EUTH DAY	267
74867-03	29.	28.	24.	SCHEDULED EUTH DAY	266
74867-01	27.	26.	27.	SCHEDULED EUTH DAY	268
MEAN	24.	24.	25.		
S.D.	2.1	2.1	2.0		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 19

MALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74742-03	25.	24.	26.	SCHEDULED	EUTH	DAY	268
74746-06	20.	21.	20.	SCHEDULED	EUTH	DAY	269
74753-04	27.	26.	26.	SCHEDULED	EUTH	DAY	268
74753-02	22.	21.	22.	SCHEDULED	EUTH	DAY	268
74761-09	19.	21.	22.	SCHEDULED	EUTH	DAY	267
74762-04	20.	20.	21.	SCHEDULED	EUTH	DAY	266
74790-09	24.	25.	24.	SCHEDULED	EUTH	DAY	269
74782-04	19.	21.	21.	SCHEDULED	EUTH	DAY	269
74785-04	24.	24.	24.	SCHEDULED	EUTH	DAY	269
74790-02	28.	25.	23.	SCHEDULED	EUTH	DAY	266
74796-07	21.	23.	23.	SCHEDULED	EUTH	DAY	267
74797-09	24.	26.	27.	SCHEDULED	EUTH	DAY	268
74798-04	22.	21.	22.	SCHEDULED	EUTH	DAY	267
74802-05	26.	22.	17.	SCHEDULED	EUTH	DAY	267
74802-08	23.	23.	22.	SCHEDULED	EUTH	DAY	266
74809-09	20.	24.	27.	SCHEDULED	EUTH	DAY	269
74816-05	22.	NA	25.	SCHEDULED	EUTH	DAY	267
74819-03	22.	24.	23.	SCHEDULED	EUTH	DAY	266
74823-01	21.	21.	21.	SCHEDULED	EUTH	DAY	269
74824-05	24.	24.	24.	SCHEDULED	EUTH	DAY	268
74835-03	22.	23.	24.	SCHEDULED	EUTH	DAY	269
74838-06	22.	23.	22.	SCHEDULED	EUTH	DAY	266
74839-02	25.	25.	26.	SCHEDULED	EUTH	DAY	268
74846-03	23.	23.	24.	SCHEDULED	EUTH	DAY	266
74856-06	20.	NA	24.	SCHEDULED	EUTH	DAY	266
74859-06	21.	21.	23.	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 20

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	500 PPM
-----					
ANIMAL					
74861-02	21.	21.	21.	SCHEDULED EUTH DAY	269
74863-05	25.	22.	26.	SCHEDULED EUTH DAY	268
74863-02	25.	23.	27.	SCHEDULED EUTH DAY	267
74869-02	24.	25.	25.	SCHEDULED EUTH DAY	267
MEAN	23.	23.	23.		
S.D.	2.3	1.7	2.3		
N	30	28	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 21

MALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74738-02	22.	23.	24.	SCHEDULED	EUTH	DAY	266
74739-04	23.	23.	23.	SCHEDULED	EUTH	DAY	266
74743-04	21.	20.	21.	SCHEDULED	EUTH	DAY	269
74744-02	22.	21.	17.	SCHEDULED	EUTH	DAY	266
74748-05	21.	21.	22.	SCHEDULED	EUTH	DAY	267
74748-02	19.	20.	20.	SCHEDULED	EUTH	DAY	268
74752-05	24.	23.	24.	SCHEDULED	EUTH	DAY	268
74766-02	22.	22.	22.	SCHEDULED	EUTH	DAY	267
74780-03	26.	25.	26.	SCHEDULED	EUTH	DAY	269
74791-05	22.	21.	22.	SCHEDULED	EUTH	DAY	269
74791-02	23.	22.	23.	SCHEDULED	EUTH	DAY	268
74793-05	21.	21.	23.	SCHEDULED	EUTH	DAY	266
74795-06	25.	23.	23.	SCHEDULED	EUTH	DAY	266
74799-03	23.	26.	26.	SCHEDULED	EUTH	DAY	268
74801-10	25.	23.	25.	SCHEDULED	EUTH	DAY	267
74806-06	24.	23.	23.	SCHEDULED	EUTH	DAY	267
74806-03	26.	24.	25.	SCHEDULED	EUTH	DAY	269
74820-02	23.	23.	23.	SCHEDULED	EUTH	DAY	268
74821-02	23.	23.	25.	SCHEDULED	EUTH	DAY	267
74830-02	24.	23.	25.	SCHEDULED	EUTH	DAY	269
74831-02	25.	25.	25.	SCHEDULED	EUTH	DAY	268
74834-04	25.	26.	26.	SCHEDULED	EUTH	DAY	267
74847-03	25.	25.	25.	SCHEDULED	EUTH	DAY	269
74848-03	28.	24.	25.	SCHEDULED	EUTH	DAY	267
74849-03	25.	25.	25.	SCHEDULED	EUTH	DAY	268
74850-05	22.	21.	23.	SCHEDULED	EUTH	DAY	268

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 22

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	1000 PPM
ANIMAL					
74855-08	23.	23.	26.	SCHEDULED EUTH DAY	269
74858-04	28.	24.	22.	SCHEDULED EUTH DAY	266
74868-02	20.	18.	19.	SCHEDULED EUTH DAY	266
74871-06	23.	22.	24.	SCHEDULED EUTH DAY	266
MEAN	23.	23.	23.		
S.D.	2.1	1.9	2.2		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 23

MALE GROUP: 2500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-04	24.	19.	21.	SCHEDULED	EUTH	DAY	268
74747-03	23.	23.	25.	SCHEDULED	EUTH	DAY	266
74751-05	23.	25.	26.	SCHEDULED	EUTH	DAY	267
74751-02	24.	23.	24.	SCHEDULED	EUTH	DAY	268
74754-09	22.	21.	22.	SCHEDULED	EUTH	DAY	268
74755-05	26.	25.	25.	SCHEDULED	EUTH	DAY	269
74768-02	24.	24.	26.	SCHEDULED	EUTH	DAY	266
74769-07	21.	20.	21.	SCHEDULED	EUTH	DAY	268
74770-06	28.	25.	28.	SCHEDULED	EUTH	DAY	268
74786-05	27.	29.	29.	SCHEDULED	EUTH	DAY	266
74786-07	22.	22.	22.	SCHEDULED	EUTH	DAY	269
74787-06	21.	24.	24.	SCHEDULED	EUTH	DAY	266
74792-03	23.	23.	22.	SCHEDULED	EUTH	DAY	267
74807-05	18.	21.	20.	SCHEDULED	EUTH	DAY	269
74811-01	25.	25.	26.	SCHEDULED	EUTH	DAY	267
74813-08	23.	22.	22.	SCHEDULED	EUTH	DAY	268
74817-04	22.	20.	21.	SCHEDULED	EUTH	DAY	269
74822-15	22.	25.	21.	SCHEDULED	EUTH	DAY	266
74822-14	26.	26.	25.	SCHEDULED	EUTH	DAY	266
74827-03	19.	22.	21.	SCHEDULED	EUTH	DAY	266
74832-03	24.	23.	24.	SCHEDULED	EUTH	DAY	267
74833-02	26.	24.	23.	SCHEDULED	EUTH	DAY	269
74836-08	25.	27.	25.	SCHEDULED	EUTH	DAY	267
74853-06	24.	24.	25.	SCHEDULED	EUTH	DAY	267
74857-10	26.	27.	26.	SCHEDULED	EUTH	DAY	268
74860-03	25.	25.	26.	SCHEDULED	EUTH	DAY	269

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 198 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	2500 PPM
ANIMAL					
74860-02	25.	24.	23.	SCHEDULED EUTH DAY	269
74862-08	19.	21.	21.	SCHEDULED EUTH DAY	269
74866-01	27.	28.	27.	SCHEDULED EUTH DAY	267
74870-06	26.	28.	29.	SCHEDULED EUTH DAY	267
MEAN	24.	24.	24.		
S.D.	2.5	2.5	2.5		
N	30	30	30		

PBFTSv4.25  
09/05/2002

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-14	19.	21.	21.	21.	21.	21.	20.	22.
74737-10	18.	19.	19.	19.	19.	18.	18.	19.
74740-07	20.	21.	21.	21.	18.	18.	24.	21.
74757-11	20.	21.	19.	21.	20.	19.	20.	18.
74759-09	16.	17.	18.	17.	18.	18.	18.	18.
74764-10	18.	19.	21.	22.	23.	24.	NA	26.
74767-16	19.	21.	21.	22.	24.	24.	22.	23.
74767-10	20.	19.	21.	19.	21.	21.	20.	21.
74772-09	17.	19.	20.	19.	19.	20.	20.	21.
74773-15	18.	18.	18.	18.	19.	18.	18.	19.
74773-08	18.	20.	19.	20.	21.	21.	21.	21.
74774-15	20.	22.	23.	23.	24.	23.	24.	24.
74789-10	17.	18.	18.	17.	19.	18.	17.	18.
74789-09	15.	17.	18.	19.	19.	19.	19.	19.
74804-11	18.	19.	19.	19.	20.	19.	19.	19.
74804-08	18.	19.	19.	20.	20.	19.	19.	19.
74808-13	19.	20.	21.	20.	21.	20.	21.	19.
74808-11	18.	19.	19.	19.	19.	19.	19.	19.
74810-16	19.	20.	20.	21.	19.	20.	21.	20.
74826-11	20.	21.	20.	22.	23.	23.	23.	23.
74826-08	19.	19.	20.	20.	23.	22.	21.	22.
74829-11	21.	22.	22.	23.	24.	22.	22.	21.
74840-03	20.	22.	21.	21.	21.	20.	22.	22.
74841-12	18.	19.	18.	18.	18.	19.	18.	17.
74844-05	19.	20.	20.	20.	20.	19.	20.	20.
74844-07	16.	18.	18.	18.	19.	19.	19.	19.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 2

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74845-07	16.	20.	21.	20.	22.	21.	21.	21.
74854-08	19.	20.	20.	21.	20.	19.	20.	20.
74864-15	18.	18.	19.	18.	19.	18.	18.	19.
74867-07	21.	24.	23.	25.	25.	27.	25.	22.
MEAN	18.	20.	20.	20.	21.	20.	20.	20.
S.D.	1.5	1.6	1.4	1.9	2.0	2.2	2.0	2.0
N	30	30	30	30	30	30	29	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-18	15.	15.	15.	16.	16.	16.	16.	15.
74746-10	20.	22.	22.	22.	22.	21.	23.	21.
74753-12	18.	19.	20.	20.	20.	20.	19.	20.
74761-12	16.	18.	17.	18.	19.	19.	18.	19.
74762-11	16.	16.	18.	18.	19.	20.	19.	20.
74782-09	15.	17.	18.	18.	18.	18.	18.	17.
74785-08	18.	17.	17.	19.	19.	18.	17.	18.
74790-15	15.	16.	16.	18.	17.	18.	18.	18.
74790-14	19.	20.	23.	21.	22.	21.	20.	20.
74796-15	21.	21.	23.	25.	29.	27.	28.	28.
74797-12	18.	18.	18.	19.	19.	20.	18.	18.
74798-13	17.	19.	19.	19.	20.	19.	18.	19.
74798-12	19.	19.	20.	19.	19.	19.	19.	19.
74802-10	19.	22.	23.	22.	22.	21.	21.	20.
74809-08	17.	18.	20.	18.	18.	17.	18.	17.
74816-12	17.	18.	17.	19.	19.	19.	18.	19.
74819-10	18.	19.	19.	19.	20.	20.	20.	19.
74823-12	21.	21.	22.	23.	24.	23.	23.	23.
74824-11	17.	17.	19.	20.	20.	20.	19.	19.
74835-11	14.	15.	14.	15.	15.	16.	16.	16.
74835-07	17.	20.	19.	22.	20.	21.	19.	19.
74838-11	18.	19.	19.	20.	20.	20.	20.	20.
74839-18	19.	19.	20.	20.	20.	20.	20.	20.
74846-07	19.	20.	19.	19.	20.	18.	18.	17.
74856-15	17.	19.	19.	20.	22.	22.	23.	22.
74859-09	17.	17.	17.	18.	18.	17.	17.	17.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 4

DAY	FEMALE GROUP: 500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74859-12	21.	21.	20.	20.	20.	21.	20.	20.
74861-05	17.	18.	18.	18.	19.	19.	17.	18.
74863-10	21.	22.	23.	22.	22.	23.	23.	22.
74869-04	18.	20.	21.	21.	21.	21.	20.	21.
MEAN	18.	19.	19.	20.	20.	20.	19.	19.
S.D.	1.9	2.0	2.4	2.1	2.5	2.2	2.5	2.4
N	30	30	30	30	30	30	30	30

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-07	20.	19.	20.	21.	20.	20.	20.	19.
74738-12	17.	18.	19.	19.	20.	20.	19.	18.
74739-08	20.	21.	21.	23.	22.	22.	22.	22.
74743-08	19.	20.	20.	21.	20.	20.	20.	19.
74744-16	16.	19.	19.	20.	19.	19.	19.	19.
74748-11	14.	16.	16.	17.	17.	16.	16.	17.
74752-10	20.	22.	21.	24.	23.	24.	24.	25.
74766-13	18.	19.	18.	19.	17.	18.	17.	18.
74780-04	18.	19.	19.	19.	22.	20.	22.	22.
74791-13	15.	17.	17.	18.	16.	17.	17.	16.
74793-14	17.	18.	18.	18.	18.	18.	18.	18.
74795-09	22.	24.	26.	31.	23.	25.	26.	24.
74799-14	16.	17.	18.	18.	18.	17.	18.	16.
74801-14	23.	23.	22.	23.	22.	21.	20.	20.
74806-11	17.	18.	19.	18.	19.	19.	19.	19.
74820-12	17.	18.	17.	18.	18.	18.	18.	17.
74821-09	18.	20.	21.	23.	22.	23.	22.	22.
74821-07	18.	20.	21.	21.	20.	20.	19.	18.
74830-11	16.	19.	20.	22.	22.	21.	21.	22.
74831-12	19.	21.	21.	20.	22.	21.	19.	19.
74834-07	19.	19.	18.	18.	18.	19.	18.	18.
74847-09	17.	18.	18.	20.	20.	21.	20.	20.
74848-04	17.	18.	18.	19.	18.	18.	18.	18.
74849-07	16.	18.	18.	18.	19.	19.	20.	20.
74850-11	16.	18.	18.	17.	19.	18.	17.	18.
74850-14	18.	18.	18.	18.	18.	19.	17.	17.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-11	18.	19.	19.	19.	20.	20.	18.	20.
74858-14	19.	20.	20.	21.	20.	21.	20.	20.
74868-20	17.	18.	19.	20.	19.	19.	19.	20.
74871-09	17.	17.	18.	19.	19.	18.	19.	19.
MEAN	18.	19.	19.	20.	20.	20.	19.	19.
S.D.	1.9	1.8	1.9	2.8	1.9	2.0	2.2	2.2
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-17	18.	19.	20.	19.	19.	21.	21.	20.
74751-13	19.	19.	19.	19.	20.	20.	18.	17.
74754-15	15.	16.	17.	18.	18.	18.	18.	19.
74755-01	16.	17.	17.	17.	18.	18.	18.	17.
74768-11	19.	20.	20.	22.	22.	22.	22.	21.
74769-08	17.	17.	18.	19.	18.	19.	18.	18.
74770-11	17.	18.	20.	20.	20.	20.	22.	21.
74770-10	20.	21.	21.	23.	23.	22.	22.	23.
74786-10	16.	17.	17.	16.	17.	19.	19.	19.
74787-10	19.	18.	19.	19.	20.	19.	19.	19.
74792-11	18.	19.	20.	19.	20.	20.	20.	20.
74792-12	16.	16.	17.	16.	17.	17.	17.	16.
74807-08	17.	17.	17.	18.	17.	18.	18.	19.
74811-13	18.	17.	18.	18.	17.	18.	17.	18.
74813-12	17.	18.	18.	18.	18.	18.	17.	18.
74817-13	18.	20.	20.	21.	20.	20.	21.	20.
74822-08	16.	17.	17.	17.	17.	17.	16.	17.
74827-11	15.	15.	14.	15.	15.	15.	16.	15.
74832-07	16.	17.	17.	17.	17.	18.	17.	17.
74833-11	17.	18.	20.	20.	19.	21.	19.	21.
74836-12	19.	20.	21.	22.	22.	21.	21.	21.
74836-11	19.	19.	19.	19.	19.	19.	19.	19.
74853-11	15.	16.	17.	19.	19.	18.	17.	17.
74853-12	20.	21.	20.	20.	20.	20.	19.	19.
74857-14	18.	19.	18.	21.	21.	20.	20.	19.
74857-09	17.	18.	17.	20.	20.	21.	20.	21.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-08	18.	19.	19.	19.	20.	19.	19.	19.
74862-13	18.	18.	18.	18.	17.	19.	18.	16.
74866-16	18.	19.	18.	20.	21.	20.	21.	22.
74870-03	22.	24.	24.	26.	25.	22.	22.	23.
MEAN	18.	18.	19.	19.	19.	19.	19.	19.
S.D.	1.6	1.8	1.9	2.2	2.1	1.6	1.8	2.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 9

DAY	FEMALE GROUP: 0 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-14	21.	21.	NA	NA	17.	17.	19.	20.
74737-10	18.	17.	NA	NA	NA	NA	NA	NA
74740-07	22.	22.	NA	NA	NA	NA	NA	18.
74757-11	17.	18.	NA	NA	NA	NA	NA	17.
74759-09	17.	16.	NA	NA	NA	NA	NA	NA
74764-10	23.	22.	NA	NA	NA	NA	NA	NA
74767-16	21.	22.	NA	NA	NA	NA	NA	NA
74767-10	20.	19.	NA	NA	NA	NA	NA	NA
74772-09	18.	17.	NA	NA	NA	NA	NA	NA
74773-15	17.	17.	NA	NA	NA	NA	NA	NA
74773-08	19.	19.	NA	NA	NA	NA	NA	NA
74774-15	22.	22.	NA	NA	NA	NA	NA	20.
74789-10	17.	16.	NA	NA	NA	NA	NA	NA
74789-09	18.	18.	NA	NA	NA	NA	NA	NA
74804-11	19.	18.	NA	NA	NA	NA	NA	NA
74804-08	19.	17.	NA	NA	NA	NA	NA	NA
74808-13	20.	18.	NA	NA	NA	NA	NA	NA
74808-11	18.	17.	NA	NA	NA	NA	NA	NA
74810-16	21.	20.	NA	NA	NA	NA	NA	NA
74826-11	24.	21.	NA	NA	NA	NA	20.	20.
74826-08	21.	20.	NA	NA	NA	NA	NA	NA
74829-11	21.	20.	NA	NA	NA	NA	NA	NA
74840-03	20.	21.	NA	NA	NA	NA	NA	NA
74841-12	17.	17.	NA	NA	NA	NA	NA	NA
74844-05	21.	20.	NA	NA	NA	NA	21.	21.
74844-07	18.	18.	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74845-07	21.	20.	NA	NA	NA	NA	NA	NA
74854-08	17.	17.	NA	NA	NA	NA	NA	20.
74864-15	18.	17.	NA	NA	NA	NA	NA	16.
74867-07	18.	24.	NA	NA	NA	NA	NA	NA
MEAN	19.	19.			17.	17.	20.	19.
S.D.	2.0	2.1			0.0	0.0	1.0	1.8
N	30	30			1	1	3	8

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 11

DAY	FEMALE GROUP:					500 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74742-18	16.	15.	NA	NA	NA	NA	NA	NA	
74746-10	20.	20.	NA	NA	NA	NA	NA	NA	
74753-12	19.	19.	NA	NA	NA	NA	NA	NA	
74761-12	18.	18.	NA	NA	NA	NA	NA	NA	
74762-11	20.	18.	NA	NA	NA	NA	NA	NA	
74782-09	16.	15.	NA	NA	NA	NA	NA	NA	
74785-08	17.	17.	NA	NA	NA	NA	NA	NA	
74790-15	18.	17.	NA	NA	NA	NA	NA	NA	
74790-14	19.	19.	NA	NA	NA	NA	NA	NA	
74796-15	28.	27.	NA	NA	NA	NA	NA	NA	
74797-12	17.	17.	NA	NA	NA	NA	NA	17.	
74798-13	20.	16.	NA	NA	NA	NA	NA	NA	
74798-12	19.	19.	NA	NA	NA	NA	NA	NA	
74802-10	20.	20.	NA	NA	NA	NA	NA	NA	
74809-08	16.	16.	NA	NA	NA	NA	NA	NA	
74816-12	17.	17.	NA	NA	NA	NA	NA	NA	
74819-10	19.	19.	NA	NA	NA	NA	NA	NA	
74823-12	23.	23.	NA	NA	NA	NA	NA	NA	
74824-11	19.	18.	NA	NA	17.	18.	17.	17.	
74835-11	15.	15.	NA	NA	NA	NA	NA	15.	
74835-07	18.	18.	NA	NA	NA	NA	NA	NA	
74838-11	20.	18.	NA	NA	NA	NA	NA	NA	
74839-18	20.	21.	NA	NA	NA	NA	NA	20.	
74846-07	18.	18.	NA	NA	NA	NA	NA	NA	
74856-15	21.	16.	NA	NA	NA	NA	NA	NA	
74859-09	17.	16.	NA	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74859-12	20.	19.	NA	NA	NA	NA	NA	NA
74861-05	17.	17.	NA	NA	NA	NA	NA	NA
74863-10	22.	21.	NA	NA	18.	22.	19.	19.
74869-04	20.	19.	NA	NA	NA	NA	NA	NA
MEAN	19.	18.			18.	20.	18.	18.
S.D.	2.5	2.5			0.7	2.8	1.4	1.9
N	30	30			2	2	2	5

NA = NOT APPLICABLE

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TABLE 199 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

DAY	FEMALE GROUP:					1000 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74738-07	17.	18.	NA	NA	NA	NA	NA	NA	
74738-12	19.	18.	NA	NA	NA	NA	NA	NA	
74739-08	19.	21.	NA	NA	NA	NA	NA	21.	
74743-08	19.	20.	NA	NA	22.	NA	NA	NA	
74744-16	18.	18.	NA	NA	16.	16.	16.	16.	
74748-11	17.	16.	NA	NA	NA	NA	NA	NA	
74752-10	25.	23.	NA	NA	NA	NA	NA	NA	
74766-13	16.	17.	NA	NA	15.	15.	15.	15.	
74780-04	20.	21.	NA	NA	NA	NA	NA	NA	
74791-13	6.	20.	NA	NA	NA	NA	NA	NA	
74793-14	16.	17.	NA	NA	NA	NA	NA	NA	
74795-09	23.	22.	NA	NA	NA	NA	NA	24.	
74799-14	16.	16.	NA	NA	NA	NA	NA	NA	
74801-14	25.	19.	NA	NA	11.	17.	15.	18.	
74806-11	18.	19.	NA	NA	NA	NA	NA	NA	
74820-12	17.	16.	NA	NA	NA	NA	NA	NA	
74821-09	22.	21.	NA	NA	NA	NA	NA	NA	
74821-07	18.	18.	NA	NA	NA	NA	NA	NA	
74830-11	20.	19.	NA	NA	NA	NA	18.	19.	
74831-12	20.	19.	NA	NA	NA	NA	NA	NA	
74834-07	16.	17.	NA	NA	NA	NA	NA	NA	
74847-09	18.	19.	NA	NA	NA	NA	NA	NA	
74848-04	18.	17.	NA	NA	NA	NA	NA	NA	
74849-07	19.	18.	NA	NA	NA	NA	NA	NA	
74850-11	17.	17.	NA	NA	NA	NA	NA	NA	
74850-14	17.	17.	NA	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-11	21.	19.	NA	NA	NA	NA	NA	NA
74858-14	18.	19.	NA	NA	NA	NA	NA	19.
74868-20	18.	16.	NA	NA	NA	NA	NA	NA
74871-09	19.	18.	NA	NA	NA	NA	NA	NA
MEAN	18.	19.			16.	16.	16.	19.
S.D.	3.3	1.8			4.5	1.0	1.4	3.0
N	30	30			4	3	4	7

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 15

DAY	FEMALE GROUP: 2500 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-17	20.	19.	NA	NA	16.	17.	18.	17.
74751-13	18.	17.	NA	NA	NA	NA	NA	NA
74754-15	18.	18.	NA	NA	NA	NA	NA	NA
74755-01	18.	17.	NA	NA	15.	17.	16.	19.
74768-11	21.	21.	NA	NA	NA	NA	NA	NA
74769-08	17.	16.	NA	NA	NA	NA	NA	NA
74770-11	19.	19.	NA	NA	NA	NA	NA	NA
74770-10	22.	20.	NA	NA	NA	NA	NA	NA
74786-10	19.	20.	NA	NA	NA	NA	NA	NA
74787-10	18.	20.	NA	NA	16.	20.	17.	18.
74792-11	18.	17.	NA	NA	15.	18.	19.	18.
74792-12	15.	15.	NA	NA	NA	NA	NA	NA
74807-08	17.	18.	NA	NA	NA	NA	NA	NA
74811-13	16.	17.	NA	NA	NA	NA	NA	NA
74813-12	18.	17.	NA	NA	NA	NA	16.	17.
74817-13	19.	18.	NA	NA	NA	NA	NA	NA
74822-08	16.	17.	NA	NA	NA	NA	NA	NA
74827-11	14.	15.	NA	NA	NA	NA	NA	NA
74832-07	16.	17.	NA	NA	NA	NA	NA	NA
74833-11	18.	20.	NA	NA	NA	NA	NA	NA
74836-12	20.	19.	NA	NA	NA	NA	NA	NA
74836-11	18.	19.	NA	NA	NA	NA	NA	NA
74853-11	17.	17.	NA	NA	NA	NA	NA	NA
74853-12	18.	18.	NA	NA	NA	NA	NA	NA
74857-14	20.	19.	NA	NA	6.	22.	17.	17.
74857-09	22.	19.	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 16

DAY	FEMALE GROUP:					2500 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74860-08	19.	18.	NA	NA	NA	NA	NA	NA	
74862-13	17.	16.	NA	NA	NA	NA	NA	NA	
74866-16	22.	23.	NA	NA	NA	NA	NA	NA	
74870-03	21.	20.	NA	NA	NA	NA	NA	NA	
MEAN	18.	18.			14.	19.	17.	18.	
S.D.	2.0	1.8			4.3	2.2	1.2	0.8	
N	30	30			5	5	6	6	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	0 PPM
ANIMAL					
74737-14	20.	21.	19.	SCHEDULED EUTH DAY	266
74737-10	NA	21.	20.	SCHEDULED EUTH DAY	266
74740-07	19.	20.	23.	SCHEDULED EUTH DAY	267
74757-11	16.	18.	17.	SCHEDULED EUTH DAY	268
74759-09	NA	21.	20.	SCHEDULED EUTH DAY	268
74764-10	NA	29.	28.	SCHEDULED EUTH DAY	268
74767-16	NA	26.	24.	SCHEDULED EUTH DAY	269
74767-10	NA	22.	23.	SCHEDULED EUTH DAY	267
74772-09	NA	20.	19.	SCHEDULED EUTH DAY	269
74773-15	NA	NA	19.	SCHEDULED EUTH DAY	269
74773-08	NA	25.	23.	SCHEDULED EUTH DAY	266
74774-15	20.	21.	22.	SCHEDULED EUTH DAY	268
74789-10	NA	21.	21.	SCHEDULED EUTH DAY	266
74789-09	NA	23.	22.	SCHEDULED EUTH DAY	267
74804-11	NA	NA	24.	SCHEDULED EUTH DAY	268
74804-08	NA	21.	21.	SCHEDULED EUTH DAY	268
74808-13	NA	20.	21.	SCHEDULED EUTH DAY	267
74808-11	NA	21.	21.	SCHEDULED EUTH DAY	266
74810-16	NA	24.	22.	SCHEDULED EUTH DAY	269
74826-11	21.	20.	22.	SCHEDULED EUTH DAY	266
74826-08	NA	22.	21.	SCHEDULED EUTH DAY	266
74829-11	NA	25.	21.	SCHEDULED EUTH DAY	267
74840-03	NA	NA	22.	SCHEDULED EUTH DAY	268
74841-12	NA	19.	17.	SCHEDULED EUTH DAY	266
74844-05	21.	18.	20.	SCHEDULED EUTH DAY	269
74844-07	NA	NA	23.	SCHEDULED EUTH DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	0 PPM
-----					
ANIMAL					
74845-07	NA	24.	22.	SCHEDULED EUTH DAY	268
74854-08	20.	21.	20.	SCHEDULED EUTH DAY	269
74864-15	17.	16.	16.	SCHEDULED EUTH DAY	267
74867-07	NA	36.	32.	SCHEDULED EUTH DAY	267
MEAN	19.	22.	22.		
S.D.	1.8	3.9	3.1		
N	8	26	30		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 19

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
-----							
ANIMAL							
74742-18	NA	19.	16.	SCHEDULED	EUTH	DAY	268
74746-10	NA	24.	22.	SCHEDULED	EUTH	DAY	267
74753-12	NA	21.	29.	SCHEDULED	EUTH	DAY	269
74761-12	NA	20.	21.	SCHEDULED	EUTH	DAY	268
74762-11	NA	23.	22.	SCHEDULED	EUTH	DAY	267
74782-09	NA	20.	17.	SCHEDULED	EUTH	DAY	266
74785-08	NA	22.	19.	SCHEDULED	EUTH	DAY	269
74790-15	NA	20.	20.	SCHEDULED	EUTH	DAY	267
74790-14	NA	20.	21.	SCHEDULED	EUTH	DAY	269
74796-15	NA	30.	28.	SCHEDULED	EUTH	DAY	267
74797-12	17.	16.	16.	SCHEDULED	EUTH	DAY	266
74798-13	NA	23.	20.	SCHEDULED	EUTH	DAY	268
74798-12	NA	21.	21.	SCHEDULED	EUTH	DAY	267
74802-10	NA	NA	22.	SCHEDULED	EUTH	DAY	267
74809-08	NA	21.	20.	SCHEDULED	EUTH	DAY	269
74816-12	NA	21.	19.	SCHEDULED	EUTH	DAY	266
74819-10	NA	21.	20.	SCHEDULED	EUTH	DAY	268
74823-12	NA	25.	23.	SCHEDULED	EUTH	DAY	266
74824-11	16.	17.	18.	SCHEDULED	EUTH	DAY	268
74835-11	15.	15.	14.	SCHEDULED	EUTH	DAY	269
74835-07	NA	24.	21.	SCHEDULED	EUTH	DAY	268
74838-11	NA	23.	20.	SCHEDULED	EUTH	DAY	269
74839-18	20.	20.	20.	SCHEDULED	EUTH	DAY	266
74846-07	NA	19.	19.	SCHEDULED	EUTH	DAY	269
74856-15	NA	19.	20.	SCHEDULED	EUTH	DAY	266
74859-09	NA	20.	19.	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 20

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74859-12	NA	23.	23.	SCHEDULED EUTH DAY 267
74861-05	17.	17.	16.	SCHEDULED EUTH DAY 268
74863-10	22.	22.	20.	SCHEDULED EUTH DAY 266
74869-04	NA	25.	22.	SCHEDULED EUTH DAY 269
MEAN	18.	21.	20.	
S.D.	2.6	3.0	3.1	
N	6	29	30	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 21

FEMALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
-----							
ANIMAL							
74738-07	NA	26.	22.	SCHEDULED	EUTH	DAY	266
74738-12	NA	22.	21.	SCHEDULED	EUTH	DAY	266
74739-08	20.	20.	20.	SCHEDULED	EUTH	DAY	267
74743-08	NA	22.	22.	SCHEDULED	EUTH	DAY	266
74744-16	17.	18.	17.	SCHEDULED	EUTH	DAY	269
74748-11	NA	29.	21.	SCHEDULED	EUTH	DAY	268
74752-10	NA	27.	26.	SCHEDULED	EUTH	DAY	269
74766-13	16.	17.	15.	SCHEDULED	EUTH	DAY	268
74780-04	NA	NA	21.	SCHEDULED	EUTH	DAY	266
74791-13	NA	20.	17.	SCHEDULED	EUTH	DAY	267
74793-14	NA	19.	19.	SCHEDULED	EUTH	DAY	269
74795-09	21.	21.	18.	SCHEDULED	EUTH	DAY	267
74799-14	NA	21.	18.	SCHEDULED	EUTH	DAY	268
74801-14	20.	22.	23.	SCHEDULED	EUTH	DAY	266
74806-11	NA	22.	21.	SCHEDULED	EUTH	DAY	268
74820-12	NA	27.	20.	SCHEDULED	EUTH	DAY	267
74821-09	NA	28.	24.	SCHEDULED	EUTH	DAY	268
74821-07	NA	23.	20.	SCHEDULED	EUTH	DAY	266
74830-11	18.	19.	19.	SCHEDULED	EUTH	DAY	266
74831-12	NA	24.	20.	SCHEDULED	EUTH	DAY	267
74834-07	NA	22.	20.	SCHEDULED	EUTH	DAY	268
74847-09	NA	23.	22.	SCHEDULED	EUTH	DAY	269
74848-04	NA	22.	19.	SCHEDULED	EUTH	DAY	268
74849-07	NA	26.	23.	SCHEDULED	EUTH	DAY	268
74850-11	NA	20.	19.	SCHEDULED	EUTH	DAY	269
74850-14	NA	NA	23.	SCHEDULED	EUTH	DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 22

FEMALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74855-11	NA	22.	20.	SCHEDULED EUTH DAY 267
74858-14	19.	18.	19.	SCHEDULED EUTH DAY 269
74868-20	NA	22.	19.	SCHEDULED EUTH DAY 267
74871-09	NA	NA	23.	SCHEDULED EUTH DAY 266
MEAN	19.	22.	20.	
S.D.	1.8	3.2	2.3	
N	7	27	30	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 23

FEMALE GROUP: 2500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-17	20.	19.	22.	SCHEDULED	EUTH	DAY	268
74751-13	NA	21.	20.	SCHEDULED	EUTH	DAY	267
74754-15	NA	18.	18.	SCHEDULED	EUTH	DAY	267
74755-01	20.	17.	16.	SCHEDULED	EUTH	DAY	266
74768-11	NA	26.	23.	SCHEDULED	EUTH	DAY	268
74769-08	NA	22.	19.	SCHEDULED	EUTH	DAY	267
74770-11	NA	21.	21.	SCHEDULED	EUTH	DAY	267
74770-10	NA	23.	22.	SCHEDULED	EUTH	DAY	268
74786-10	NA	23.	22.	SCHEDULED	EUTH	DAY	269
74787-10	18.	19.	18.	SCHEDULED	EUTH	DAY	267
74792-11	17.	17.	16.	SCHEDULED	EUTH	DAY	266
74792-12	NA	19.	18.	SCHEDULED	EUTH	DAY	268
74807-08	NA	22.	20.	SCHEDULED	EUTH	DAY	266
74811-13	NA	19.	17.	SCHEDULED	EUTH	DAY	267
74813-12	16.	18.	19.	SCHEDULED	EUTH	DAY	269
74817-13	NA	22.	20.	SCHEDULED	EUTH	DAY	266
74822-08	NA	19.	18.	SCHEDULED	EUTH	DAY	266
74827-11	NA	16.	15.	SCHEDULED	EUTH	DAY	269
74832-07	NA	NA	17.	SCHEDULED	EUTH	DAY	267
74833-11	NA	22.	22.	SCHEDULED	EUTH	DAY	267
74836-12	NA	29.	25.	SCHEDULED	EUTH	DAY	269
74836-11	NA	23.	21.	SCHEDULED	EUTH	DAY	269
74853-11	NA	20.	19.	SCHEDULED	EUTH	DAY	269
74853-12	NA	22.	21.	SCHEDULED	EUTH	DAY	269
74857-14	17.	17.	18.	SCHEDULED	EUTH	DAY	268
74857-09	NA	NA	20.	SCHEDULED	EUTH	DAY	266

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 199 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/ANIMAL/DAY]

PAGE 24

FEMALE GROUP: 2500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74860-08	NA	21.	19.	SCHEDULED EUTH DAY 268
74862-13	NA	21.	19.	SCHEDULED EUTH DAY 266
74866-16	NA	24.	24.	SCHEDULED EUTH DAY 268
74870-03	NA	44.	28.	SCHEDULED EUTH DAY 269
MEAN	18.	22.	20.	
S.D.	1.7	5.3	2.8	
N	6	28	30	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-03	121.	93.	79.	71.	65.	64.	61.	56.
74740-02	113.	93.	82.	75.	71.	68.	65.	59.
74757-08	137.	98.	89.	75.	65.	60.	57.	55.
74757-05	129.	101.	85.	76.	72.	65.	62.	56.
74759-02	120.	90.	83.	78.	72.	68.	64.	60.
74759-05	113.	90.	79.	69.	68.	63.	58.	56.
74764-02	116.	92.	81.	73.	72.	65.	60.	60.
74767-07	132.	101.	87.	74.	71.	65.	62.	57.
74772-02	130.	102.	87.	80.	75.	70.	65.	59.
74772-08	133.	112.	94.	90.	78.	73.	68.	63.
74773-02	118.	93.	79.	70.	67.	62.	58.	56.
74774-03	134.	104.	90.	84.	78.	68.	64.	60.
74789-04	144.	106.	91.	84.	74.	67.	63.	59.
74804-04	138.	110.	88.	79.	74.	68.	62.	60.
74808-01	129.	97.	82.	78.	74.	67.	67.	65.
74810-07	133.	107.	92.	81.	76.	72.	71.	65.
74810-02	131.	103.	90.	78.	71.	67.	63.	59.
74826-05	127.	101.	87.	78.	70.	67.	65.	61.
74829-05	122.	93.	82.	74.	70.	65.	62.	58.
74840-02	124.	101.	86.	73.	71.	68.	64.	61.
74841-02	130.	105.	92.	84.	78.	69.	65.	60.
74841-06	139.	105.	92.	80.	73.	68.	62.	61.
74844-04	129.	96.	84.	72.	67.	60.	61.	57.
74845-01	135.	100.	93.	83.	75.	69.	60.	62.
74845-03	129.	104.	88.	78.	74.	68.	64.	59.
74854-06	118.	97.	83.	72.	73.	62.	67.	59.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 2

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74854-02	142.	105.	91.	82.	75.	68.	66.	60.
74864-06	135.	104.	88.	79.	76.	69.	64.	59.
74867-03	131.	104.	88.	73.	68.	61.	61.	59.
74867-01	126.	98.	89.	79.	72.	67.	63.	59.
MEAN	129.	100.	87.	77.	72.	66.	63.	59.
S.D.	8.2	5.8	4.4	4.9	3.6	3.2	3.1	2.4
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-03	146.	113.	95.	92.	85.	78.	75.	77.
74746-06	140.	111.	94.	85.	78.	70.	66.	62.
74753-04	128.	103.	87.	81.	76.	72.	65.	65.
74753-02	130.	104.	89.	82.	73.	71.	65.	61.
74761-09	183.	131.	112.	99.	86.	79.	77.	69.
74762-04	140.	105.	87.	76.	71.	69.	65.	59.
74790-09	131.	99.	86.	74.	68.	62.	57.	56.
74782-04	165.	125.	105.	95.	83.	77.	71.	68.
74785-04	136.	105.	89.	84.	78.	70.	65.	63.
74790-02	129.	98.	90.	81.	77.	73.	65.	64.
74796-07	127.	101.	91.	83.	74.	70.	66.	58.
74797-09	140.	101.	86.	76.	73.	70.	66.	60.
74798-04	125.	97.	84.	72.	67.	65.	64.	58.
74802-05	123.	99.	87.	80.	73.	68.	65.	58.
74802-08	121.	101.	87.	82.	75.	69.	66.	64.
74809-09	127.	93.	87.	75.	70.	65.	60.	58.
74816-05	124.	91.	83.	74.	68.	64.	64.	60.
74819-03	126.	96.	84.	76.	68.	65.	61.	59.
74823-01	124.	89.	78.	71.	68.	63.	59.	58.
74824-05	168.	122.	100.	94.	82.	73.	70.	66.
74835-03	130.	98.	84.	76.	71.	66.	62.	59.
74838-06	130.	104.	85.	74.	75.	71.	68.	62.
74839-02	121.	94.	80.	73.	68.	63.	63.	60.
74846-03	118.	88.	79.	74.	70.	62.	59.	55.
74856-06	135.	108.	91.	85.	79.	69.	64.	65.
74859-06	162.	113.	97.	84.	76.	72.	67.	63.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74861-02	137.	103.	91.	81.	73.	66.	63.	60.
74863-05	127.	93.	83.	74.	68.	63.	60.	58.
74863-02	130.	95.	91.	79.	71.	65.	64.	58.
74869-02	121.	89.	85.	72.	70.	64.	62.	58.
MEAN	135.	102.	89.	80.	74.	68.	65.	61.
S.D.	15.6	10.5	7.4	7.3	5.3	4.7	4.4	4.5
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-02	127.	96.	91.	77.	73.	64.	59.	59.
74739-04	125.	95.	89.	76.	76.	72.	65.	61.
74743-04	114.	85.	75.	66.	67.	63.	58.	53.
74744-02	128.	97.	86.	85.	80.	73.	69.	67.
74748-05	143.	105.	88.	91.	77.	69.	64.	62.
74748-02	144.	102.	88.	81.	79.	68.	70.	63.
74752-05	118.	93.	77.	72.	68.	65.	61.	57.
74766-02	133.	70.	99.	80.	75.	64.	60.	58.
74780-03	126.	96.	84.	76.	75.	65.	64.	59.
74791-05	128.	97.	85.	83.	75.	73.	66.	63.
74791-02	131.	101.	88.	79.	73.	67.	60.	58.
74793-05	128.	93.	80.	74.	70.	65.	64.	61.
74795-06	128.	97.	86.	75.	68.	66.	61.	58.
74799-03	149.	115.	97.	85.	77.	64.	60.	58.
74801-10	126.	98.	82.	75.	69.	68.	63.	55.
74806-06	114.	85.	80.	74.	68.	62.	58.	56.
74806-03	121.	92.	79.	76.	71.	67.	61.	56.
74820-02	116.	88.	78.	73.	72.	68.	61.	59.
74821-02	145.	113.	99.	84.	74.	74.	66.	66.
74830-02	135.	99.	88.	74.	70.	63.	63.	62.
74831-02	130.	102.	82.	76.	56.	63.	59.	77.
74834-04	123.	86.	76.	68.	68.	63.	60.	55.
74847-03	128.	94.	84.	76.	73.	64.	64.	58.
74848-03	127.	91.	80.	72.	67.	65.	60.	58.
74849-03	124.	95.	82.	76.	70.	65.	64.	61.
74850-05	124.	95.	89.	76.	74.	69.	72.	65.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	1000 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-08	131.	101.	84.	81.	77.	69.	63.	65.
74858-04	130.	94.	80.	73.	66.	65.	61.	59.
74868-02	165.	122.	104.	91.	83.	79.	71.	71.
74871-06	122.	99.	83.	72.	67.	62.	62.	58.
MEAN	129.	97.	85.	77.	72.	67.	63.	61.
S.D.	10.9	9.6	7.1	5.9	5.3	4.1	3.7	5.0
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-04	135.	102.	90.	78.	74.	61.	61.	61.
74747-03	121.	90.	84.	72.	72.	65.	62.	59.
74751-05	132.	100.	82.	74.	70.	64.	59.	56.
74751-02	140.	107.	89.	78.	72.	67.	62.	59.
74754-09	125.	94.	88.	91.	75.	68.	66.	63.
74755-05	123.	95.	84.	81.	74.	68.	63.	58.
74768-02	123.	93.	78.	73.	68.	61.	56.	55.
74769-07	143.	106.	88.	81.	73.	68.	64.	58.
74770-06	131.	96.	84.	75.	72.	66.	66.	61.
74786-05	116.	91.	83.	79.	71.	68.	66.	60.
74786-07	121.	91.	82.	72.	68.	63.	58.	52.
74787-06	130.	94.	85.	79.	70.	66.	66.	63.
74792-03	112.	88.	75.	71.	67.	61.	58.	56.
74807-05	140.	100.	88.	80.	72.	70.	70.	61.
74811-01	126.	89.	79.	75.	68.	64.	62.	58.
74813-08	136.	94.	78.	81.	75.	67.	63.	61.
74817-04	129.	105.	89.	74.	68.	60.	55.	57.
74822-15	120.	90.	78.	71.	64.	63.	60.	61.
74822-14	123.	91.	78.	70.	69.	64.	64.	59.
74827-03	138.	106.	99.	84.	76.	71.	66.	65.
74832-03	128.	97.	86.	72.	67.	63.	64.	61.
74833-02	122.	98.	84.	78.	74.	69.	66.	64.
74836-08	114.	85.	79.	71.	65.	64.	57.	56.
74853-06	128.	92.	80.	73.	68.	61.	58.	56.
74857-10	128.	101.	88.	77.	72.	69.	65.	62.
74860-03	135.	96.	84.	75.	70.	65.	61.	58.

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 8

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	MALE GROUP: 162 TO 169	2500 PPM 169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-02	131.	99.	85.	77.	70.	64.	62.	61.
74862-08	145.	103.	86.	75.	72.	67.	64.	58.
74866-01	122.	94.	89.	79.	69.	64.	64.	62.
74870-06	121.	94.	81.	77.	73.	65.	60.	57.
MEAN	128.	96.	84.	76.	71.	65.	62.	59.
S.D.	8.4	5.8	5.0	4.6	3.0	2.9	3.6	2.9
N	30	30	30	30	30	30	30	30

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TABLE 200 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	MALE GROUP: 0 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-03	56.	51.	NA	NA	50.	42.	44.	46.
74740-02	55.	54.	NA	NA	54.	51.	50.	48.
74757-08	52.	51.	NA	NA	49.	47.	43.	44.
74757-05	52.	53.	NA	NA	48.	46.	47.	44.
74759-02	55.	56.	NA	NA	56.	52.	49.	49.
74759-05	55.	51.	NA	NA	49.	47.	47.	45.
74764-02	56.	53.	NA	NA	50.	45.	45.	43.
74767-07	56.	57.	NA	NA	54.	47.	52.	50.
74772-02	58.	56.	NA	NA	49.	52.	51.	49.
74772-08	61.	57.	NA	NA	54.	51.	50.	49.
74773-02	54.	51.	NA	NA	49.	47.	44.	50.
74774-03	57.	53.	NA	NA	49.	47.	47.	45.
74789-04	57.	54.	NA	NA	52.	50.	47.	46.
74804-04	56.	54.	NA	NA	50.	49.	46.	46.
74808-01	61.	55.	NA	NA	57.	54.	51.	51.
74810-07	61.	58.	NA	NA	56.	54.	53.	49.
74810-02	57.	54.	NA	NA	53.	50.	49.	50.
74826-05	57.	54.	NA	NA	51.	46.	48.	46.
74829-05	56.	55.	NA	NA	54.	50.	49.	53.
74840-02	57.	56.	NA	NA	53.	49.	52.	50.
74841-02	59.	57.	NA	NA	51.	50.	48.	47.
74841-06	57.	55.	NA	NA	47.	50.	50.	47.
74844-04	56.	53.	NA	NA	51.	46.	47.	46.
74845-01	57.	56.	NA	NA	57.	56.	55.	50.
74845-03	60.	55.	NA	NA	52.	51.	48.	49.
74854-06	56.	53.	NA	NA	53.	50.	51.	48.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	0 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74854-02	58.	54.	NA	NA	53.	49.	47.	44.
74864-06	57.	55.	NA	NA	52.	48.	49.	53.
74867-03	56.	54.	NA	NA	49.	49.	48.	48.
74867-01	57.	53.	NA	NA	51.	48.	42.	50.
MEAN	57.	54.			52.	49.	48.	48.
S.D.	2.2	1.9			2.7	2.9	3.0	2.6
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 11

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74742-03	72.	65.	NA	NA	67.	62.	61.	64.
74746-06	60.	57.	NA	NA	52.	50.	50.	49.
74753-04	61.	61.	NA	NA	55.	54.	52.	51.
74753-02	59.	58.	NA	NA	51.	51.	48.	49.
74761-09	66.	67.	NA	NA	58.	55.	54.	53.
74762-04	61.	54.	NA	NA	53.	52.	49.	48.
74790-09	55.	53.	NA	NA	54.	51.	45.	46.
74782-04	61.	59.	NA	NA	55.	56.	53.	52.
74785-04	63.	59.	NA	NA	55.	54.	50.	50.
74790-02	61.	59.	NA	NA	57.	49.	53.	52.
74796-07	56.	50.	NA	NA	51.	50.	49.	49.
74797-09	59.	57.	NA	NA	52.	49.	50.	47.
74798-04	54.	56.	NA	NA	50.	48.	44.	45.
74802-05	56.	56.	NA	NA	43.	48.	46.	44.
74802-08	65.	59.	NA	NA	60.	49.	55.	55.
74809-09	54.	52.	NA	NA	49.	42.	47.	45.
74816-05	55.	55.	NA	NA	52.	47.	49.	46.
74819-03	57.	55.	NA	NA	49.	48.	48.	48.
74823-01	57.	55.	NA	NA	52.	45.	49.	52.
74824-05	61.	59.	NA	NA	59.	56.	55.	52.
74835-03	54.	54.	NA	NA	49.	47.	46.	45.
74838-06	58.	57.	NA	NA	58.	53.	54.	52.
74839-02	58.	55.	NA	NA	51.	51.	51.	51.
74846-03	53.	52.	NA	NA	51.	48.	44.	42.
74856-06	65.	60.	NA	NA	56.	54.	52.	49.
74859-06	58.	58.	NA	NA	55.	53.	53.	52.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74861-02	55.	56.	NA	NA	50.	51.	48.	51.
74863-05	54.	55.	NA	NA	49.	46.	45.	46.
74863-02	56.	55.	NA	NA	52.	49.	51.	51.
74869-02	58.	54.	NA	NA	51.	49.	50.	49.
MEAN	59.	57.			53.	51.	50.	50.
S.D.	4.3	3.6			4.5	3.9	3.8	4.1
N	30	30			30	30	30	30

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 200 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 13

DAY	MALE GROUP:		1000 PPM		225 TO 232	232 TO 239	239 TO 246	
	190 TO 197	197 TO 204	204 TO 211	211 TO 218				
ANIMAL								
74738-02	55.	53.	NA	NA	53.	47.	49.	48.
74739-04	59.	57.	NA	NA	55.	52.	53.	51.
74743-04	54.	50.	NA	NA	50.	46.	45.	43.
74744-02	64.	63.	NA	NA	63.	56.	55.	54.
74748-05	59.	58.	NA	NA	55.	54.	49.	48.
74748-02	61.	51.	NA	NA	53.	49.	52.	52.
74752-05	53.	52.	NA	NA	49.	51.	47.	47.
74766-02	55.	55.	NA	NA	50.	48.	47.	46.
74780-03	56.	54.	NA	NA	51.	47.	47.	44.
74791-05	61.	60.	NA	NA	56.	55.	54.	50.
74791-02	56.	54.	NA	NA	50.	48.	49.	47.
74793-05	57.	52.	NA	NA	50.	50.	48.	46.
74795-06	56.	50.	NA	NA	50.	48.	48.	46.
74799-03	57.	53.	NA	NA	52.	45.	47.	46.
74801-10	53.	56.	NA	NA	55.	45.	51.	52.
74806-06	54.	50.	NA	NA	50.	47.	48.	47.
74806-03	55.	53.	NA	NA	54.	51.	51.	52.
74820-02	54.	53.	NA	NA	49.	47.	47.	44.
74821-02	63.	63.	NA	NA	56.	52.	56.	55.
74830-02	58.	54.	NA	NA	54.	48.	51.	49.
74831-02	58.	59.	NA	NA	54.	50.	50.	51.
74834-04	53.	50.	NA	NA	49.	45.	48.	47.
74847-03	56.	50.	NA	NA	50.	44.	48.	49.
74848-03	57.	54.	NA	NA	50.	43.	46.	49.
74849-03	57.	55.	NA	NA	52.	48.	45.	46.
74850-05	60.	59.	NA	NA	58.	53.	54.	52.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	1000 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-08	61.	58.	NA	NA	54.	51.	53.	47.
74858-04	55.	53.	NA	NA	53.	47.	51.	51.
74868-02	64.	61.	NA	NA	53.	54.	53.	49.
74871-06	57.	54.	NA	NA	53.	52.	52.	49.
MEAN	57.	55.			53.	49.	50.	49.
S.D.	3.2	3.8			3.1	3.4	3.0	3.0
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 15

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-04	63.	61.	NA	NA	55.	51.	51.	48.
74747-03	55.	52.	NA	NA	50.	46.	43.	47.
74751-05	53.	54.	NA	NA	48.	49.	43.	49.
74751-02	57.	56.	NA	NA	53.	49.	48.	47.
74754-09	57.	57.	NA	NA	56.	48.	49.	52.
74755-05	61.	55.	NA	NA	49.	51.	49.	47.
74768-02	50.	47.	NA	NA	46.	44.	42.	43.
74769-07	52.	50.	NA	NA	51.	49.	47.	46.
74770-06	59.	55.	NA	NA	52.	45.	48.	48.
74786-05	60.	56.	NA	NA	51.	48.	50.	42.
74786-07	53.	54.	NA	NA	48.	46.	48.	43.
74787-06	58.	58.	NA	NA	55.	55.	45.	68.
74792-03	51.	52.	NA	NA	44.	45.	45.	42.
74807-05	58.	56.	NA	NA	52.	48.	50.	48.
74811-01	54.	52.	NA	NA	47.	45.	46.	43.
74813-08	59.	55.	NA	NA	50.	48.	49.	45.
74817-04	56.	54.	NA	NA	50.	47.	45.	45.
74822-15	58.	53.	NA	NA	53.	54.	53.	52.
74822-14	57.	59.	NA	NA	52.	50.	49.	50.
74827-03	63.	61.	NA	NA	61.	59.	58.	59.
74832-03	57.	52.	NA	NA	49.	45.	43.	44.
74833-02	61.	58.	NA	NA	56.	48.	55.	51.
74836-08	54.	51.	NA	NA	44.	45.	44.	44.
74853-06	54.	51.	NA	NA	52.	48.	49.	46.
74857-10	57.	55.	NA	NA	50.	47.	46.	45.
74860-03	54.	51.	NA	NA	47.	35.	49.	49.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 200 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	MALE GROUP: 218 TO 225	2500 PPM 225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-02	56.	53.	NA	NA	50.	50.	48.	48.
74862-08	56.	52.	NA	NA	50.	46.	45.	44.
74866-01	59.	55.	NA	NA	52.	50.	46.	48.
74870-06	54.	54.	NA	NA	52.	46.	47.	46.
MEAN	57.	54.			51.	48.	48.	48.
S.D.	3.3	3.2			3.6	4.1	3.6	5.3
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
-----					
ANIMAL					
74737-03	42.	41.	46.	SCHEDULED EUTH DAY	268
74740-02	48.	51.	45.	SCHEDULED EUTH DAY	269
74757-08	44.	44.	43.	SCHEDULED EUTH DAY	269
74757-05	44.	44.	45.	SCHEDULED EUTH DAY	267
74759-02	45.	42.	47.	SCHEDULED EUTH DAY	267
74759-05	42.	43.	43.	SCHEDULED EUTH DAY	269
74764-02	44.	41.	40.	SCHEDULED EUTH DAY	267
74767-07	47.	48.	49.	SCHEDULED EUTH DAY	266
74772-02	47.	46.	46.	SCHEDULED EUTH DAY	266
74772-08	47.	47.	47.	SCHEDULED EUTH DAY	266
74773-02	43.	47.	45.	SCHEDULED EUTH DAY	269
74774-03	41.	43.	43.	SCHEDULED EUTH DAY	266
74789-04	47.	41.	47.	SCHEDULED EUTH DAY	266
74804-04	45.	44.	42.	SCHEDULED EUTH DAY	269
74808-01	49.	48.	49.	SCHEDULED EUTH DAY	267
74810-07	48.	48.	54.	SCHEDULED EUTH DAY	268
74810-02	46.	46.	47.	SCHEDULED EUTH DAY	269
74826-05	43.	46.	46.	SCHEDULED EUTH DAY	267
74829-05	45.	43.	47.	SCHEDULED EUTH DAY	268
74840-02	44.	48.	52.	SCHEDULED EUTH DAY	268
74841-02	47.	45.	46.	SCHEDULED EUTH DAY	269
74841-06	41.	43.	42.	SCHEDULED EUTH DAY	268
74844-04	44.	44.	44.	SCHEDULED EUTH DAY	266
74845-01	50.	48.	48.	SCHEDULED EUTH DAY	267
74845-03	47.	46.	49.	SCHEDULED EUTH DAY	268
74854-06	44.	49.	47.	SCHEDULED EUTH DAY	266

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	0 PPM
-----					
ANIMAL					
74854-02	45.	48.	47.	SCHEDULED EUTH DAY	268
74864-06	49.	41.	47.	SCHEDULED EUTH DAY	267
74867-03	45.	43.	38.	SCHEDULED EUTH DAY	266
74867-01	43.	41.	42.	SCHEDULED EUTH DAY	268
MEAN	45.	45.	46.		
S.D.	2.4	2.8	3.3		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 19

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	500 PPM
ANIMAL					
74742-03	58.	55.	59.	SCHEDULED EUTH DAY	268
74746-06	46.	47.	45.	SCHEDULED EUTH DAY	269
74753-04	50.	48.	48.	SCHEDULED EUTH DAY	268
74753-02	47.	44.	46.	SCHEDULED EUTH DAY	268
74761-09	48.	52.	53.	SCHEDULED EUTH DAY	267
74762-04	48.	46.	48.	SCHEDULED EUTH DAY	266
74790-09	45.	46.	43.	SCHEDULED EUTH DAY	269
74782-04	46.	50.	50.	SCHEDULED EUTH DAY	269
74785-04	48.	48.	47.	SCHEDULED EUTH DAY	269
74790-02	48.	43.	40.	SCHEDULED EUTH DAY	266
74796-07	44.	47.	47.	SCHEDULED EUTH DAY	267
74797-09	43.	46.	47.	SCHEDULED EUTH DAY	268
74798-04	45.	42.	44.	SCHEDULED EUTH DAY	267
74802-05	48.	41.	32.	SCHEDULED EUTH DAY	267
74802-08	51.	51.	49.	SCHEDULED EUTH DAY	266
74809-09	38.	44.	48.	SCHEDULED EUTH DAY	269
74816-05	44.	NA	48.	SCHEDULED EUTH DAY	267
74819-03	42.	46.	43.	SCHEDULED EUTH DAY	266
74823-01	46.	45.	45.	SCHEDULED EUTH DAY	269
74824-05	50.	49.	49.	SCHEDULED EUTH DAY	268
74835-03	41.	42.	44.	SCHEDULED EUTH DAY	269
74838-06	48.	50.	48.	SCHEDULED EUTH DAY	266
74839-02	48.	48.	50.	SCHEDULED EUTH DAY	268
74846-03	40.	40.	41.	SCHEDULED EUTH DAY	266
74856-06	48.	NA	55.	SCHEDULED EUTH DAY	266
74859-06	50.	50.	52.	SCHEDULED EUTH DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 20

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	500 PPM
-----					
ANIMAL					
74861-02	47.	45.	45.	SCHEDULED EUTH DAY	269
74863-05	46.	41.	47.	SCHEDULED EUTH DAY	268
74863-02	46.	42.	49.	SCHEDULED EUTH DAY	267
74869-02	46.	48.	47.	SCHEDULED EUTH DAY	267
MEAN	47.	46.	47.		
S.D.	3.7	3.7	4.8		
N	30	28	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 21

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	1000 PPM
ANIMAL					
74738-02	45.	47.	48.	SCHEDULED EUTH DAY	266
74739-04	47.	47.	47.	SCHEDULED EUTH DAY	266
74743-04	43.	43.	44.	SCHEDULED EUTH DAY	269
74744-02	54.	50.	42.	SCHEDULED EUTH DAY	266
74748-05	47.	46.	48.	SCHEDULED EUTH DAY	267
74748-02	49.	51.	50.	SCHEDULED EUTH DAY	268
74752-05	46.	44.	45.	SCHEDULED EUTH DAY	268
74766-02	45.	44.	44.	SCHEDULED EUTH DAY	267
74780-03	45.	43.	44.	SCHEDULED EUTH DAY	269
74791-05	50.	47.	49.	SCHEDULED EUTH DAY	269
74791-02	46.	44.	46.	SCHEDULED EUTH DAY	268
74793-05	45.	44.	48.	SCHEDULED EUTH DAY	266
74795-06	47.	43.	43.	SCHEDULED EUTH DAY	266
74799-03	43.	48.	48.	SCHEDULED EUTH DAY	268
74801-10	50.	46.	49.	SCHEDULED EUTH DAY	267
74806-06	46.	44.	43.	SCHEDULED EUTH DAY	267
74806-03	49.	45.	46.	SCHEDULED EUTH DAY	269
74820-02	44.	43.	43.	SCHEDULED EUTH DAY	268
74821-02	49.	48.	51.	SCHEDULED EUTH DAY	267
74830-02	47.	45.	47.	SCHEDULED EUTH DAY	269
74831-02	49.	49.	49.	SCHEDULED EUTH DAY	268
74834-04	42.	43.	43.	SCHEDULED EUTH DAY	267
74847-03	47.	45.	45.	SCHEDULED EUTH DAY	269
74848-03	46.	40.	41.	SCHEDULED EUTH DAY	267
74849-03	45.	45.	44.	SCHEDULED EUTH DAY	268
74850-05	48.	46.	50.	SCHEDULED EUTH DAY	268

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 22

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	1000 PPM
-----					
ANIMAL					
74855-08	43.	43.	49.	SCHEDULED EUTH DAY	269
74858-04	51.	44.	41.	SCHEDULED EUTH DAY	266
74868-02	50.	43.	47.	SCHEDULED EUTH DAY	266
74871-06	49.	46.	49.	SCHEDULED EUTH DAY	266
MEAN	47.	45.	46.		
S.D.	2.7	2.4	2.9		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 23

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	2500 PPM
ANIMAL					
74747-04	46.	37.	41.	SCHEDULED EUTH DAY	268
74747-03	40.	41.	44.	SCHEDULED EUTH DAY	266
74751-05	44.	47.	48.	SCHEDULED EUTH DAY	267
74751-02	45.	43.	45.	SCHEDULED EUTH DAY	268
74754-09	49.	47.	48.	SCHEDULED EUTH DAY	268
74755-05	47.	44.	44.	SCHEDULED EUTH DAY	269
74768-02	43.	43.	45.	SCHEDULED EUTH DAY	266
74769-07	46.	44.	46.	SCHEDULED EUTH DAY	268
74770-06	46.	41.	45.	SCHEDULED EUTH DAY	268
74786-05	43.	45.	45.	SCHEDULED EUTH DAY	266
74786-07	46.	44.	45.	SCHEDULED EUTH DAY	269
74787-06	50.	55.	55.	SCHEDULED EUTH DAY	266
74792-03	42.	42.	40.	SCHEDULED EUTH DAY	267
74807-05	45.	52.	48.	SCHEDULED EUTH DAY	269
74811-01	44.	43.	44.	SCHEDULED EUTH DAY	267
74813-08	47.	44.	44.	SCHEDULED EUTH DAY	268
74817-04	41.	38.	40.	SCHEDULED EUTH DAY	269
74822-15	52.	60.	50.	SCHEDULED EUTH DAY	266
74822-14	50.	51.	48.	SCHEDULED EUTH DAY	266
74827-03	51.	59.	54.	SCHEDULED EUTH DAY	266
74832-03	43.	41.	43.	SCHEDULED EUTH DAY	267
74833-02	50.	47.	45.	SCHEDULED EUTH DAY	269
74836-08	42.	45.	41.	SCHEDULED EUTH DAY	267
74853-06	48.	48.	48.	SCHEDULED EUTH DAY	267
74857-10	43.	44.	42.	SCHEDULED EUTH DAY	268
74860-03	45.	45.	46.	SCHEDULED EUTH DAY	269

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 200 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266	MALE GROUP:	2500 PPM
-----					
ANIMAL					
74860-02	44.	42.	40.	SCHEDULED EUTH DAY	269
74862-08	40.	44.	44.	SCHEDULED EUTH DAY	269
74866-01	45.	46.	43.	SCHEDULED EUTH DAY	267
74870-06	43.	45.	46.	SCHEDULED EUTH DAY	267
MEAN	45.	46.	45.		
S.D.	3.2	5.3	3.6		
N	30	30	30		

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 1

DAY	FEMALE GROUP: 0 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-14	110.	97.	85.	78.	76.	74.	66.	71.
74737-10	112.	91.	86.	78.	74.	69.	68.	68.
74740-07	120.	106.	96.	93.	80.	70.	88.	76.
74757-11	123.	105.	86.	88.	79.	73.	73.	67.
74759-09	110.	101.	94.	83.	85.	83.	78.	77.
74764-10	115.	96.	98.	91.	87.	87.	NA	85.
74767-16	128.	108.	101.	95.	98.	95.	84.	85.
74767-10	118.	94.	89.	78.	80.	78.	73.	72.
74772-09	130.	106.	99.	86.	81.	80.	77.	76.
74773-15	118.	94.	85.	83.	79.	77.	72.	74.
74773-08	109.	97.	85.	84.	83.	79.	76.	76.
74774-15	140.	112.	98.	88.	85.	78.	77.	73.
74789-10	136.	106.	90.	80.	82.	75.	68.	70.
74789-09	133.	109.	98.	92.	87.	79.	77.	73.
74804-11	148.	113.	101.	89.	92.	82.	76.	74.
74804-08	132.	105.	93.	92.	85.	77.	74.	76.
74808-13	117.	98.	91.	85.	81.	76.	74.	66.
74808-11	125.	104.	94.	85.	84.	76.	75.	72.
74810-16	128.	108.	98.	93.	81.	84.	81.	77.
74826-11	140.	111.	99.	101.	99.	92.	88.	87.
74826-08	123.	95.	95.	90.	95.	88.	81.	85.
74829-11	121.	100.	92.	94.	89.	79.	78.	76.
74840-03	116.	100.	89.	80.	78.	73.	72.	74.
74841-12	124.	105.	91.	86.	85.	86.	78.	74.
74844-05	140.	112.	100.	90.	85.	79.	76.	75.
74844-07	128.	111.	95.	87.	86.	84.	79.	79.

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 2

DAY	FEMALE GROUP: 0 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74845-07	118.	116.	108.	99.	95.	87.	85.	83.
74854-08	139.	106.	96.	92.	85.	75.	75.	74.
74864-15	170.	122.	109.	95.	91.	82.	79.	79.
74867-07	117.	106.	92.	94.	92.	89.	78.	70.
MEAN	126.	104.	94.	88.	85.	80.	77.	75.
S.D.	13.2	7.3	6.3	6.1	6.3	6.3	5.3	5.4
N	30	30	30	30	30	30	29	30

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TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

DAY	FEMALE GROUP: 500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-18	147.	111.	100.	101.	92.	87.	82.	77.
74746-10	147.	117.	101.	93.	84.	80.	80.	71.
74753-12	129.	101.	99.	85.	83.	79.	73.	72.
74761-12	162.	124.	99.	96.	95.	86.	81.	81.
74762-11	137.	107.	99.	90.	91.	89.	81.	79.
74782-09	163.	125.	117.	103.	94.	89.	85.	77.
74785-08	135.	97.	86.	88.	82.	76.	71.	71.
74790-15	114.	107.	94.	96.	82.	86.	81.	79.
74790-14	137.	109.	111.	93.	92.	83.	77.	76.
74796-15	124.	96.	93.	95.	99.	87.	86.	84.
74797-12	131.	105.	92.	91.	90.	88.	77.	73.
74798-13	136.	109.	102.	92.	89.	80.	74.	74.
74798-12	139.	105.	96.	84.	76.	75.	71.	67.
74802-10	131.	114.	105.	95.	92.	86.	82.	76.
74809-08	115.	99.	97.	82.	78.	74.	75.	68.
74816-12	110.	95.	85.	84.	78.	77.	69.	71.
74819-10	138.	113.	98.	89.	89.	84.	79.	73.
74823-12	139.	115.	106.	100.	99.	92.	86.	84.
74824-11	140.	104.	99.	96.	88.	82.	75.	74.
74835-11	123.	109.	97.	93.	88.	92.	92.	84.
74835-07	121.	108.	93.	103.	90.	86.	75.	73.
74838-11	118.	104.	95.	97.	87.	84.	81.	80.
74839-18	128.	99.	91.	87.	84.	79.	76.	75.
74846-07	113.	100.	87.	82.	83.	76.	73.	68.
74856-15	155.	123.	110.	105.	106.	100.	101.	93.
74859-09	128.	92.	85.	86.	78.	70.	68.	68.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74859-12	136.	107.	91.	84.	80.	79.	72.	70.
74861-05	147.	118.	103.	96.	92.	89.	77.	78.
74863-10	129.	105.	99.	87.	86.	84.	80.	74.
74869-04	118.	104.	99.	91.	85.	80.	74.	74.
MEAN	133.	107.	98.	92.	88.	83.	78.	75.
S.D.	13.8	8.5	7.6	6.5	7.0	6.4	7.0	5.8
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-07	133.	102.	94.	91.	82.	80.	75.	69.
74738-12	129.	105.	95.	88.	88.	80.	76.	67.
74739-08	118.	97.	93.	89.	84.	79.	78.	73.
74743-08	116.	96.	88.	87.	81.	75.	74.	69.
74744-16	144.	117.	106.	99.	84.	81.	81.	76.
74748-11	132.	107.	93.	89.	83.	74.	72.	74.
74752-10	120.	110.	102.	100.	95.	91.	87.	89.
74766-13	143.	113.	97.	91.	78.	81.	73.	76.
74780-04	123.	107.	92.	88.	89.	78.	83.	81.
74791-13	132.	113.	103.	100.	86.	85.	82.	73.
74793-14	121.	100.	91.	83.	78.	75.	74.	71.
74795-09	146.	119.	110.	114.	88.	89.	88.	79.
74799-14	131.	113.	101.	93.	87.	83.	81.	70.
74801-14	142.	107.	92.	87.	78.	73.	66.	66.
74806-11	129.	103.	95.	85.	84.	80.	78.	74.
74820-12	113.	96.	86.	86.	80.	76.	75.	70.
74821-09	143.	121.	106.	110.	92.	91.	83.	82.
74821-07	130.	112.	102.	96.	88.	84.	78.	72.
74830-11	119.	104.	99.	99.	89.	84.	83.	82.
74831-12	135.	109.	96.	89.	89.	79.	71.	73.
74834-07	135.	106.	92.	86.	87.	84.	76.	75.
74847-09	117.	101.	90.	87.	82.	82.	74.	69.
74848-04	113.	95.	85.	79.	72.	68.	68.	64.
74849-07	139.	115.	104.	99.	92.	87.	90.	85.
74850-11	139.	115.	100.	87.	93.	84.	76.	78.
74850-14	132.	99.	90.	85.	82.	79.	70.	67.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-11	113.	98.	90.	86.	83.	80.	71.	78.
74858-14	131.	103.	93.	89.	81.	82.	74.	71.
74868-20	170.	132.	109.	98.	85.	82.	82.	80.
74871-09	124.	101.	95.	91.	83.	75.	78.	73.
MEAN	130.	107.	96.	92.	85.	81.	77.	74.
S.D.	12.5	8.6	6.7	7.8	5.1	5.2	5.9	5.9
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-17	109.	95.	91.	78.	74.	81.	75.	69.
74751-13	130.	106.	95.	90.	85.	79.	71.	67.
74754-15	118.	93.	89.	83.	77.	72.	72.	73.
74755-01	118.	103.	96.	93.	91.	87.	85.	81.
74768-11	123.	99.	91.	91.	85.	81.	79.	72.
74769-08	137.	100.	95.	87.	77.	77.	72.	69.
74770-11	118.	98.	93.	84.	77.	76.	78.	72.
74770-10	120.	95.	91.	90.	82.	75.	76.	75.
74786-10	111.	101.	93.	83.	84.	86.	82.	79.
74787-10	130.	99.	95.	92.	90.	81.	79.	77.
74792-11	115.	97.	92.	82.	80.	79.	76.	71.
74792-12	122.	96.	89.	78.	77.	74.	71.	65.
74807-08	116.	92.	87.	84.	78.	75.	73.	73.
74811-13	118.	94.	88.	84.	75.	78.	71.	72.
74813-12	125.	103.	93.	90.	85.	81.	73.	78.
74817-13	121.	99.	89.	86.	77.	73.	74.	67.
74822-08	103.	90.	82.	78.	77.	72.	65.	66.
74827-11	128.	103.	83.	83.	75.	72.	74.	66.
74832-07	119.	102.	92.	86.	81.	84.	76.	74.
74833-11	110.	98.	94.	88.	81.	84.	77.	79.
74836-12	103.	91.	89.	83.	77.	72.	71.	67.
74836-11	111.	90.	81.	75.	73.	69.	68.	64.
74853-11	106.	89.	84.	87.	81.	74.	67.	67.
74853-12	123.	99.	87.	79.	79.	73.	66.	66.
74857-14	119.	99.	94.	89.	83.	74.	71.	68.
74857-09	113.	95.	83.	88.	84.	80.	73.	71.

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 8

DAY	FEMALE GROUP: 2500 PPM							
	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-08	117.	96.	86.	82.	77.	71.	67.	67.
74862-13	128.	101.	86.	88.	80.	82.	73.	63.
74866-16	120.	104.	91.	90.	89.	79.	77.	80.
74870-03	123.	100.	94.	91.	81.	69.	68.	68.
MEAN	118.	98.	90.	85.	80.	77.	73.	71.
S.D.	8.0	4.5	4.3	4.7	4.7	5.0	4.7	5.1
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 9

DAY	FEMALE GROUP: 0 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-14	67.	65.	NA	NA	52.	54.	57.	59.
74737-10	63.	60.	NA	NA	NA	NA	NA	NA
74740-07	76.	75.	NA	NA	NA	NA	NA	57.
74757-11	60.	63.	NA	NA	NA	NA	NA	56.
74759-09	70.	68.	NA	NA	NA	NA	NA	NA
74764-10	73.	69.	NA	NA	NA	NA	NA	NA
74767-16	80.	78.	NA	NA	NA	NA	NA	NA
74767-10	68.	63.	NA	NA	NA	NA	NA	NA
74772-09	65.	62.	NA	NA	NA	NA	NA	NA
74773-15	65.	65.	NA	NA	NA	NA	NA	NA
74773-08	68.	66.	NA	NA	NA	NA	NA	NA
74774-15	66.	66.	NA	NA	NA	NA	NA	55.
74789-10	64.	61.	NA	NA	NA	NA	NA	NA
74789-09	67.	67.	NA	NA	NA	NA	NA	NA
74804-11	75.	68.	NA	NA	NA	NA	NA	NA
74804-08	73.	64.	NA	NA	NA	NA	NA	NA
74808-13	68.	63.	NA	NA	NA	NA	NA	NA
74808-11	67.	65.	NA	NA	NA	NA	NA	NA
74810-16	78.	73.	NA	NA	NA	NA	NA	NA
74826-11	87.	73.	NA	NA	NA	NA	65.	64.
74826-08	78.	72.	NA	NA	NA	NA	NA	NA
74829-11	72.	68.	NA	NA	NA	NA	NA	NA
74840-03	66.	68.	NA	NA	NA	NA	NA	NA
74841-12	73.	72.	NA	NA	NA	NA	NA	NA
74844-05	74.	70.	NA	NA	NA	NA	66.	65.
74844-07	73.	72.	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74845-07	80.	75.	NA	NA	NA	NA	NA	NA
74854-08	65.	63.	NA	NA	NA	NA	NA	62.
74864-15	74.	68.	NA	NA	NA	NA	NA	58.
74867-07	59.	74.	NA	NA	NA	NA	NA	NA
MEAN	70.	68.			52.	54.	63.	60.
S.D.	6.4	4.7			0.0	0.0	4.9	3.7
N	30	30			1	1	3	8

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 11

DAY	FEMALE GROUP:					500 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74742-18	78.	71.	NA	NA	NA	NA	NA	NA	
74746-10	66.	64.	NA	NA	NA	NA	NA	NA	
74753-12	66.	66.	NA	NA	NA	NA	NA	NA	
74761-12	74.	74.	NA	NA	NA	NA	NA	NA	
74762-11	78.	68.	NA	NA	NA	NA	NA	NA	
74782-09	70.	65.	NA	NA	NA	NA	NA	NA	
74785-08	68.	66.	NA	NA	NA	NA	NA	NA	
74790-15	79.	74.	NA	NA	NA	NA	NA	NA	
74790-14	71.	69.	NA	NA	NA	NA	NA	NA	
74796-15	83.	77.	NA	NA	NA	NA	NA	NA	
74797-12	71.	69.	NA	NA	NA	NA	NA	64.	
74798-13	74.	63.	NA	NA	NA	NA	NA	NA	
74798-12	66.	66.	NA	NA	NA	NA	NA	NA	
74802-10	75.	74.	NA	NA	NA	NA	NA	NA	
74809-08	65.	65.	NA	NA	NA	NA	NA	NA	
74816-12	63.	61.	NA	NA	NA	NA	NA	NA	
74819-10	73.	71.	NA	NA	NA	NA	NA	NA	
74823-12	84.	81.	NA	NA	NA	NA	NA	NA	
74824-11	71.	66.	NA	NA	60.	60.	57.	57.	
74835-11	79.	77.	NA	NA	NA	NA	NA	67.	
74835-07	69.	67.	NA	NA	NA	NA	NA	NA	
74838-11	76.	68.	NA	NA	NA	NA	NA	NA	
74839-18	76.	76.	NA	NA	NA	NA	NA	65.	
74846-07	71.	69.	NA	NA	NA	NA	NA	NA	
74856-15	88.	66.	NA	NA	NA	NA	NA	NA	
74859-09	65.	60.	NA	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74859-12	69.	66.	NA	NA	NA	NA	NA	NA
74861-05	72.	71.	NA	NA	NA	NA	NA	NA
74863-10	73.	68.	NA	NA	56.	68.	58.	57.
74869-04	72.	65.	NA	NA	NA	NA	NA	NA
MEAN	73.	69.			58.	64.	58.	62.
S.D.	6.0	5.0			2.8	5.7	0.7	4.7
N	30	30			2	2	2	5

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 13

DAY	FEMALE GROUP:					1000 PPM			
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246	
ANIMAL									
74738-07	61.	65.	NA	NA	NA	NA	NA	NA	
74738-12	70.	65.	NA	NA	NA	NA	NA	NA	
74739-08	66.	70.	NA	NA	NA	NA	NA	65.	
74743-08	69.	70.	NA	NA	60.	NA	NA	NA	
74744-16	69.	69.	NA	NA	60.	61.	57.	56.	
74748-11	70.	65.	NA	NA	NA	NA	NA	NA	
74752-10	84.	76.	NA	NA	NA	NA	NA	NA	
74766-13	68.	68.	NA	NA	59.	60.	58.	58.	
74780-04	75.	74.	NA	NA	NA	NA	NA	NA	
74791-13	31.	89.	NA	NA	NA	NA	NA	NA	
74793-14	61.	64.	NA	NA	NA	NA	NA	NA	
74795-09	76.	72.	NA	NA	NA	NA	NA	68.	
74799-14	69.	70.	NA	NA	NA	NA	NA	NA	
74801-14	74.	58.	NA	NA	34.	52.	46.	54.	
74806-11	70.	72.	NA	NA	NA	NA	NA	NA	
74820-12	68.	62.	NA	NA	NA	NA	NA	NA	
74821-09	78.	72.	NA	NA	NA	NA	NA	NA	
74821-07	71.	69.	NA	NA	NA	NA	NA	NA	
74830-11	72.	67.	NA	NA	NA	NA	58.	62.	
74831-12	73.	68.	NA	NA	NA	NA	NA	NA	
74834-07	68.	69.	NA	NA	NA	NA	NA	NA	
74847-09	61.	64.	NA	NA	NA	NA	NA	NA	
74848-04	62.	59.	NA	NA	NA	NA	NA	NA	
74849-07	77.	73.	NA	NA	NA	NA	NA	NA	
74850-11	73.	71.	NA	NA	NA	NA	NA	NA	
74850-14	67.	65.	NA	NA	NA	NA	NA	NA	

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-11	78.	69.	NA	NA	NA	NA	NA	NA
74858-14	65.	66.	NA	NA	NA	NA	NA	59.
74868-20	71.	64.	NA	NA	NA	NA	NA	NA
74871-09	72.	66.	NA	NA	NA	NA	NA	NA
MEAN	69.	68.			53.	58.	55.	60.
S.D.	9.0	5.7			12.8	4.9	5.9	5.0
N	30	30			4	3	4	7

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 15

DAY	FEMALE GROUP: 2500 PPM							
	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-17	67.	66.	NA	NA	53.	56.	55.	53.
74751-13	68.	62.	NA	NA	NA	NA	NA	NA
74754-15	68.	66.	NA	NA	NA	NA	NA	NA
74755-01	81.	75.	NA	NA	65.	74.	66.	81.
74768-11	71.	70.	NA	NA	NA	NA	NA	NA
74769-08	63.	60.	NA	NA	NA	NA	NA	NA
74770-11	63.	65.	NA	NA	NA	NA	NA	NA
74770-10	68.	62.	NA	NA	NA	NA	NA	NA
74786-10	77.	79.	NA	NA	NA	NA	NA	NA
74787-10	72.	77.	NA	NA	63.	75.	62.	66.
74792-11	64.	60.	NA	NA	51.	60.	61.	57.
74792-12	59.	59.	NA	NA	NA	NA	NA	NA
74807-08	65.	67.	NA	NA	NA	NA	NA	NA
74811-13	63.	67.	NA	NA	NA	NA	NA	NA
74813-12	74.	70.	NA	NA	NA	NA	62.	63.
74817-13	61.	58.	NA	NA	NA	NA	NA	NA
74822-08	64.	65.	NA	NA	NA	NA	NA	NA
74827-11	62.	65.	NA	NA	NA	NA	NA	NA
74832-07	70.	72.	NA	NA	NA	NA	NA	NA
74833-11	69.	72.	NA	NA	NA	NA	NA	NA
74836-12	62.	58.	NA	NA	NA	NA	NA	NA
74836-11	61.	61.	NA	NA	NA	NA	NA	NA
74853-11	65.	62.	NA	NA	NA	NA	NA	NA
74853-12	63.	62.	NA	NA	NA	NA	NA	NA
74857-14	68.	64.	NA	NA	21.	71.	54.	52.
74857-09	73.	66.	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-08	66.	61.	NA	NA	NA	NA	NA	NA
74862-13	66.	61.	NA	NA	NA	NA	NA	NA
74866-16	77.	74.	NA	NA	NA	NA	NA	NA
74870-03	60.	56.	NA	NA	NA	NA	NA	NA
MEAN	67.	65.			51.	67.	60.	62.
S.D.	5.5	5.9			17.6	8.6	4.6	10.8
N	30	30			5	5	6	6

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 17

FEMALE GROUP: 0 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74737-14	59.	59.	53.	SCHEDULED	EUTH	DAY	266
74737-10	NA	69.	63.	SCHEDULED	EUTH	DAY	266
74740-07	59.	61.	67.	SCHEDULED	EUTH	DAY	267
74757-11	52.	57.	54.	SCHEDULED	EUTH	DAY	268
74759-09	NA	77.	71.	SCHEDULED	EUTH	DAY	268
74764-10	NA	91.	80.	SCHEDULED	EUTH	DAY	268
74767-16	NA	88.	77.	SCHEDULED	EUTH	DAY	269
74767-10	NA	65.	67.	SCHEDULED	EUTH	DAY	267
74772-09	NA	60.	57.	SCHEDULED	EUTH	DAY	269
74773-15	NA	NA	63.	SCHEDULED	EUTH	DAY	269
74773-08	NA	75.	69.	SCHEDULED	EUTH	DAY	266
74774-15	55.	56.	57.	SCHEDULED	EUTH	DAY	268
74789-10	NA	69.	67.	SCHEDULED	EUTH	DAY	266
74789-09	NA	77.	72.	SCHEDULED	EUTH	DAY	267
74804-11	NA	NA	80.	SCHEDULED	EUTH	DAY	268
74804-08	NA	69.	69.	SCHEDULED	EUTH	DAY	268
74808-13	NA	61.	63.	SCHEDULED	EUTH	DAY	267
74808-11	NA	71.	69.	SCHEDULED	EUTH	DAY	266
74810-16	NA	80.	76.	SCHEDULED	EUTH	DAY	269
74826-11	66.	63.	66.	SCHEDULED	EUTH	DAY	266
74826-08	NA	67.	65.	SCHEDULED	EUTH	DAY	266
74829-11	NA	78.	65.	SCHEDULED	EUTH	DAY	267
74840-03	NA	NA	64.	SCHEDULED	EUTH	DAY	268
74841-12	NA	69.	62.	SCHEDULED	EUTH	DAY	266
74844-05	63.	56.	60.	SCHEDULED	EUTH	DAY	269
74844-07	NA	NA	78.	SCHEDULED	EUTH	DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	0 PPM
-----					
ANIMAL					
74845-07	NA	81.	75.	SCHEDULED EUTH DAY	268
74854-08	62.	64.	59.	SCHEDULED EUTH DAY	269
74864-15	61.	59.	58.	SCHEDULED EUTH DAY	267
74867-07	NA	97.	83.	SCHEDULED EUTH DAY	267
MEAN	60.	70.	67.		
S.D.	4.5	11.1	8.0		
N	8	26	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 19

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
-----							
ANIMAL							
74742-18	NA	81.	68.	SCHEDULED	EUTH	DAY	268
74746-10	NA	70.	63.	SCHEDULED	EUTH	DAY	267
74753-12	NA	64.	88.	SCHEDULED	EUTH	DAY	269
74761-12	NA	78.	77.	SCHEDULED	EUTH	DAY	268
74762-11	NA	83.	74.	SCHEDULED	EUTH	DAY	267
74782-09	NA	80.	66.	SCHEDULED	EUTH	DAY	266
74785-08	NA	77.	64.	SCHEDULED	EUTH	DAY	269
74790-15	NA	73.	71.	SCHEDULED	EUTH	DAY	267
74790-14	NA	68.	68.	SCHEDULED	EUTH	DAY	269
74796-15	NA	79.	74.	SCHEDULED	EUTH	DAY	267
74797-12	65.	59.	59.	SCHEDULED	EUTH	DAY	266
74798-13	NA	78.	66.	SCHEDULED	EUTH	DAY	268
74798-12	NA	64.	64.	SCHEDULED	EUTH	DAY	267
74802-10	NA	NA	74.	SCHEDULED	EUTH	DAY	267
74809-08	NA	73.	69.	SCHEDULED	EUTH	DAY	269
74816-12	NA	71.	62.	SCHEDULED	EUTH	DAY	266
74819-10	NA	69.	66.	SCHEDULED	EUTH	DAY	268
74823-12	NA	80.	74.	SCHEDULED	EUTH	DAY	266
74824-11	52.	55.	58.	SCHEDULED	EUTH	DAY	268
74835-11	68.	66.	63.	SCHEDULED	EUTH	DAY	269
74835-07	NA	79.	70.	SCHEDULED	EUTH	DAY	268
74838-11	NA	75.	65.	SCHEDULED	EUTH	DAY	269
74839-18	65.	66.	65.	SCHEDULED	EUTH	DAY	266
74846-07	NA	69.	64.	SCHEDULED	EUTH	DAY	269
74856-15	NA	65.	68.	SCHEDULED	EUTH	DAY	266
74859-09	NA	63.	61.	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 20

FEMALE GROUP: 500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74859-12	NA	69.	65.	SCHEDULED EUTH DAY 267
74861-05	61.	61.	59.	SCHEDULED EUTH DAY 268
74863-10	63.	64.	57.	SCHEDULED EUTH DAY 266
74869-04	NA	78.	66.	SCHEDULED EUTH DAY 269
MEAN	62.	71.	67.	
S.D.	5.6	7.5	6.5	
N	6	29	30	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 21

FEMALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
-----							
ANIMAL							
74738-07	NA	82.	69.	SCHEDULED	EUTH	DAY	266
74738-12	NA	74.	68.	SCHEDULED	EUTH	DAY	266
74739-08	61.	60.	60.	SCHEDULED	EUTH	DAY	267
74743-08	NA	71.	68.	SCHEDULED	EUTH	DAY	266
74744-16	60.	61.	58.	SCHEDULED	EUTH	DAY	269
74748-11	NA	100.	72.	SCHEDULED	EUTH	DAY	268
74752-10	NA	82.	77.	SCHEDULED	EUTH	DAY	269
74766-13	59.	62.	56.	SCHEDULED	EUTH	DAY	268
74780-04	NA	NA	63.	SCHEDULED	EUTH	DAY	266
74791-13	NA	77.	64.	SCHEDULED	EUTH	DAY	267
74793-14	NA	64.	63.	SCHEDULED	EUTH	DAY	269
74795-09	62.	61.	54.	SCHEDULED	EUTH	DAY	267
74799-14	NA	80.	67.	SCHEDULED	EUTH	DAY	268
74801-14	58.	61.	63.	SCHEDULED	EUTH	DAY	266
74806-11	NA	75.	70.	SCHEDULED	EUTH	DAY	268
74820-12	NA	95.	68.	SCHEDULED	EUTH	DAY	267
74821-09	NA	86.	70.	SCHEDULED	EUTH	DAY	268
74821-07	NA	81.	70.	SCHEDULED	EUTH	DAY	266
74830-11	57.	61.	61.	SCHEDULED	EUTH	DAY	266
74831-12	NA	80.	65.	SCHEDULED	EUTH	DAY	267
74834-07	NA	77.	69.	SCHEDULED	EUTH	DAY	268
74847-09	NA	71.	67.	SCHEDULED	EUTH	DAY	269
74848-04	NA	66.	57.	SCHEDULED	EUTH	DAY	268
74849-07	NA	90.	78.	SCHEDULED	EUTH	DAY	268
74850-11	NA	78.	69.	SCHEDULED	EUTH	DAY	269
74850-14	NA	NA	77.	SCHEDULED	EUTH	DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 22

FEMALE GROUP: 1000 PPM

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74855-11	NA	71.	63.	SCHEDULED EUTH DAY 267
74858-14	57.	55.	56.	SCHEDULED EUTH DAY 269
74868-20	NA	73.	63.	SCHEDULED EUTH DAY 267
74871-09	NA	NA	74.	SCHEDULED EUTH DAY 266
MEAN	59.	74.	66.	
S.D.	2.0	11.4	6.4	
N	7	27	30	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 23

FEMALE GROUP: 2500 PPM

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-17	62.	57.	64.	SCHEDULED	EUTH	DAY	268
74751-13	NA	70.	63.	SCHEDULED	EUTH	DAY	267
74754-15	NA	58.	58.	SCHEDULED	EUTH	DAY	267
74755-01	84.	68.	65.	SCHEDULED	EUTH	DAY	266
74768-11	NA	77.	66.	SCHEDULED	EUTH	DAY	268
74769-08	NA	71.	61.	SCHEDULED	EUTH	DAY	267
74770-11	NA	63.	59.	SCHEDULED	EUTH	DAY	267
74770-10	NA	65.	61.	SCHEDULED	EUTH	DAY	268
74786-10	NA	78.	73.	SCHEDULED	EUTH	DAY	269
74787-10	67.	68.	63.	SCHEDULED	EUTH	DAY	267
74792-11	53.	53.	50.	SCHEDULED	EUTH	DAY	266
74792-12	NA	68.	63.	SCHEDULED	EUTH	DAY	268
74807-08	NA	73.	65.	SCHEDULED	EUTH	DAY	266
74811-13	NA	64.	58.	SCHEDULED	EUTH	DAY	267
74813-12	59.	65.	67.	SCHEDULED	EUTH	DAY	269
74817-13	NA	60.	56.	SCHEDULED	EUTH	DAY	266
74822-08	NA	61.	59.	SCHEDULED	EUTH	DAY	266
74827-11	NA	59.	55.	SCHEDULED	EUTH	DAY	269
74832-07	NA	NA	66.	SCHEDULED	EUTH	DAY	267
74833-11	NA	70.	72.	SCHEDULED	EUTH	DAY	267
74836-12	NA	79.	66.	SCHEDULED	EUTH	DAY	269
74836-11	NA	68.	62.	SCHEDULED	EUTH	DAY	269
74853-11	NA	65.	61.	SCHEDULED	EUTH	DAY	269
74853-12	NA	67.	62.	SCHEDULED	EUTH	DAY	269
74857-14	52.	51.	54.	SCHEDULED	EUTH	DAY	268
74857-09	NA	NA	63.	SCHEDULED	EUTH	DAY	266

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 201 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION [G/KG/DAY]

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266	FEMALE GROUP:	2500 PPM
-----					
ANIMAL					
74860-08	NA	63.	57.	SCHEDULED EUTH DAY	268
74862-13	NA	68.	62.	SCHEDULED EUTH DAY	266
74866-16	NA	72.	69.	SCHEDULED EUTH DAY	268
74870-03	NA	116.	70.	SCHEDULED EUTH DAY	269
MEAN	63.	68.	62.		
S.D.	11.8	11.7	5.3		
N	6	28	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-03	36.0	31.0	22.2	20.7	9.2	13.8	10.8	11.7
74740-02	31.2	28.6	21.1	16.6	15.9	11.5	9.9	12.0
74757-08	36.0	32.0	28.1	18.6	15.8	12.2	10.6	12.2
74757-05	34.9	31.0	30.5	20.5	16.1	14.3	12.4	14.3
74759-02	35.1	32.7	26.9	16.4	9.3	11.0	12.6	8.0
74759-05	35.1	32.0	21.7	18.5	11.4	16.0	10.1	10.1
74764-02	33.9	30.2	27.0	20.9	15.2	13.8	12.2	7.4
74767-07	36.4	34.6	27.0	16.6	15.4	12.0	8.0	10.1
74772-02	39.5	32.0	28.6	21.7	17.9	13.8	15.8	13.8
74772-08	40.3	31.0	24.6	20.1	13.8	12.9	14.3	8.9
74773-02	33.3	25.6	21.9	15.9	9.5	16.4	9.9	8.2
74774-03	41.0	33.2	26.1	21.2	19.2	13.8	14.8	6.9
74789-04	40.5	37.0	34.5	24.2	16.6	12.5	14.9	11.9
74804-04	34.6	30.4	31.1	25.0	19.4	17.1	13.7	14.9
74808-01	36.0	28.6	20.3	16.9	16.3	11.6	9.2	14.3
74810-07	35.7	32.3	30.0	21.7	16.7	10.5	10.6	10.0
74810-02	32.6	31.0	28.1	19.5	17.6	13.3	11.4	10.8
74826-05	37.5	29.6	28.1	18.7	14.3	15.3	12.9	7.9
74829-05	29.1	26.9	22.0	16.5	13.7	13.2	11.0	8.6
74840-02	33.9	28.1	24.0	16.5	12.7	11.6	12.7	9.5
74841-02	33.9	31.0	24.8	18.9	13.8	10.8	11.3	10.7
74841-06	35.4	31.0	29.1	23.1	17.0	13.7	13.1	13.2
74844-04	36.4	30.4	33.0	21.1	14.3	6.2	17.7	12.6
74845-01	36.6	32.4	26.6	22.4	13.3	9.2	13.7	9.7
74845-03	32.0	26.2	31.4	20.6	16.5	17.0	12.6	10.9
74854-06	36.1	31.4	30.8	17.7	17.9	12.6	15.8	11.6

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 2

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74854-02	39.3	29.6	29.1	22.9	21.2	14.8	12.0	8.4
74864-06	38.5	31.2	29.6	18.9	12.3	12.2	10.1	10.4
74867-03	34.0	30.7	20.8	21.2	15.2	11.8	12.0	8.8
74867-01	35.0	28.1	21.8	20.6	16.8	17.6	11.3	14.3
MEAN	35.7	30.7	26.7	19.8	15.1	13.1	12.2	10.7
S.D.	2.76	2.37	3.94	2.48	2.93	2.45	2.18	2.28
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-03	33.5	25.8	24.2	14.3	13.8	8.5	8.5	6.9
74746-06	29.4	30.0	35.1	23.0	20.8	13.7	13.0	12.4
74753-04	34.8	29.1	25.4	17.9	17.7	9.4	14.3	9.4
74753-02	35.4	30.3	23.4	19.2	14.3	13.2	12.6	4.8
74761-09	31.4	31.0	29.3	28.6	22.1	14.9	11.8	12.3
74762-04	41.3	30.6	28.6	22.4	14.3	16.2	11.7	10.2
74790-09	34.2	32.4	27.5	20.9	17.6	10.3	10.7	13.1
74782-04	40.3	27.9	27.3	25.6	20.8	13.7	14.9	10.1
74785-04	31.5	29.6	23.8	16.3	13.3	13.8	8.2	7.7
74790-02	29.8	29.1	24.0	16.8	16.3	10.8	9.5	10.7
74796-07	33.6	29.2	22.6	20.6	20.6	12.0	12.6	8.7
74797-09	33.7	31.7	25.4	20.1	16.8	15.3	11.3	13.3
74798-04	34.3	33.5	29.2	19.3	16.1	13.7	12.6	14.3
74802-05	31.3	27.1	19.7	19.5	16.2	9.9	8.9	8.5
74802-08	32.7	22.8	17.6	15.9	9.9	6.9	10.3	6.9
74809-09	33.7	29.7	27.1	24.6	14.8	14.8	10.7	7.7
74816-05	30.4	27.3	20.8	21.4	17.9	11.3	10.9	13.7
74819-03	40.3	31.4	26.4	18.7	14.9	16.5	8.6	15.4
74823-01	38.5	31.0	22.0	12.4	15.5	7.5	6.5	12.4
74824-05	35.7	33.1	30.4	26.4	16.6	14.3	14.3	12.6
74835-03	37.7	30.1	24.5	17.9	14.8	13.3	6.9	11.1
74838-06	32.0	24.5	20.3	11.9	11.5	11.0	9.3	10.9
74839-02	33.9	28.0	24.7	18.7	14.3	7.4	7.7	12.6
74846-03	37.6	27.0	24.1	13.3	16.2	11.7	13.3	15.8
74856-06	33.6	30.4	24.4	17.1	13.7	9.9	5.8	8.7
74859-06	43.6	36.0	31.4	22.9	16.6	10.9	7.1	5.0

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74861-02	37.8	35.0	30.5	26.7	18.0	12.3	12.3	11.0
74863-05	34.9	33.3	23.5	20.9	16.8	11.1	9.0	10.6
74863-02	34.3	31.7	25.8	18.6	15.8	9.7	5.6	12.7
74869-02	33.1	25.7	25.0	15.9	14.8	9.3	7.7	8.6
MEAN	34.8	29.8	25.5	19.6	16.1	11.8	10.2	10.6
S.D.	3.49	3.01	3.76	4.22	2.68	2.62	2.65	2.85
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-02	38.6	34.2	25.8	22.9	17.6	11.3	9.3	9.5
74739-04	34.5	29.1	20.4	14.8	14.3	9.2	8.8	3.4
74743-04	35.4	31.2	24.0	14.3	18.0	13.7	8.4	12.2
74744-02	34.5	26.2	26.3	24.0	17.4	10.4	11.0	5.8
74748-05	26.9	29.4	33.1	28.0	21.1	14.9	14.3	9.7
74748-02	42.0	33.3	30.1	22.9	18.8	10.7	15.6	11.6
74752-05	31.8	28.0	25.5	20.2	20.0	10.9	12.0	7.7
74766-02	35.7	14.3	28.1	24.2	12.1	15.5	6.8	6.2
74780-03	37.7	33.1	27.5	24.3	21.4	14.3	11.3	12.2
74791-05	36.1	35.1	22.1	17.9	17.9	6.0	12.4	10.6
74791-02	40.5	35.7	28.0	23.8	17.3	14.9	15.5	8.7
74793-05	36.0	30.4	23.8	16.1	17.1	8.9	11.4	10.9
74795-06	35.1	31.7	25.0	17.5	13.2	13.8	11.0	11.5
74799-03	47.1	39.9	31.9	26.5	24.0	15.4	13.7	9.1
74801-10	33.5	30.0	23.0	15.8	11.1	7.7	11.1	1.8
74806-06	38.1	36.0	24.6	15.4	16.0	10.1	7.5	10.6
74806-03	35.4	30.3	25.7	15.4	19.0	13.8	10.4	13.1
74820-02	34.3	35.7	28.0	19.6	18.1	12.6	12.6	11.4
74821-02	35.7	35.4	28.0	20.2	15.5	15.4	13.7	10.9
74830-02	39.8	33.0	24.3	18.3	17.0	13.1	8.8	6.6
74831-02	36.3	27.5	28.0	19.0	3.6	4.3	4.5	23.4
74834-04	35.2	32.4	22.0	22.5	13.3	16.3	13.3	11.6
74847-03	35.4	31.7	24.0	18.4	13.8	14.3	7.7	15.9
74848-03	40.5	34.6	28.0	20.1	20.4	7.1	16.3	10.7
74849-03	36.0	33.5	22.5	21.7	15.3	15.3	10.2	12.8
74850-05	37.1	34.8	21.7	13.7	13.7	11.9	7.7	14.3

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-08	30.8	22.2	22.5	17.9	10.7	13.2	12.1	10.7
74858-04	37.1	32.3	20.3	19.2	19.2	13.2	6.0	8.2
74868-02	43.8	35.7	30.5	26.7	20.2	16.0	11.9	9.7
74871-06	36.4	29.7	22.9	17.3	16.1	7.5	10.1	5.0
MEAN	36.6	31.5	25.6	20.0	16.4	12.1	10.8	10.2
S.D.	3.83	4.81	3.32	3.93	4.00	3.25	2.92	3.99
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-04	33.5	31.9	23.3	18.7	16.4	8.1	8.3	9.1
74747-03	34.9	33.9	22.2	21.4	13.3	14.3	11.8	11.3
74751-05	37.5	29.6	25.8	19.8	17.5	11.0	9.7	12.0
74751-02	35.1	28.0	26.5	21.7	16.9	14.3	9.3	12.1
74754-09	30.5	32.7	22.0	12.3	14.3	12.0	5.7	11.4
74755-05	34.6	27.0	25.6	17.1	10.5	9.9	11.2	10.6
74768-02	35.4	29.6	23.1	25.0	14.3	18.0	12.6	12.7
74769-07	42.0	36.7	33.1	28.6	18.5	14.3	12.5	14.3
74770-06	35.2	30.0	25.8	15.2	19.6	-1.5	21.0	8.3
74786-05	34.8	33.0	25.5	21.4	14.3	19.4	15.2	14.7
74786-07	35.1	31.9	22.8	18.1	12.6	6.3	11.3	7.1
74787-06	34.0	31.8	23.0	19.0	14.9	13.0	8.9	11.9
74792-03	36.4	29.2	26.8	20.6	19.2	13.7	10.9	9.1
74807-05	40.0	35.3	33.8	25.7	17.9	16.3	10.4	10.0
74811-01	36.6	33.5	27.0	23.2	18.2	13.8	8.4	14.8
74813-08	37.7	32.9	32.3	20.6	14.3	13.7	7.4	14.8
74817-04	39.0	30.2	28.1	20.9	17.0	9.5	1.9	12.5
74822-15	34.2	29.2	17.4	17.4	13.0	4.5	9.1	8.1
74822-14	36.3	28.6	19.2	14.3	9.3	10.3	6.6	10.9
74827-03	34.0	29.2	20.3	14.3	9.9	5.8	4.1	11.7
74832-03	34.9	32.1	23.6	19.6	16.9	11.6	11.8	11.3
74833-02	32.5	27.4	25.7	18.7	16.4	13.2	12.2	5.8
74836-08	34.5	31.4	24.3	20.1	18.5	12.8	16.9	13.3
74853-06	36.3	31.4	29.1	22.8	15.9	8.0	9.7	9.1
74857-10	28.6	24.9	26.0	17.5	18.9	16.3	13.3	9.4
74860-03	34.1	35.7	20.9	19.9	13.3	10.1	14.8	9.0

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 8

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-02	34.7	34.5	24.4	22.3	18.3	12.5	16.6	10.4
74862-08	38.6	36.6	26.1	25.5	15.5	14.9	9.5	13.7
74866-01	35.4	33.0	25.1	20.2	18.4	10.1	13.8	9.9
74870-06	32.1	33.3	23.3	23.2	16.2	15.8	11.7	12.2
MEAN	35.3	31.5	25.1	20.2	15.7	11.7	10.9	11.1
S.D.	2.66	2.90	3.74	3.62	2.79	4.31	3.90	2.31
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 9

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-03	8.4	6.3	NA	NA	2.6	-8.1	9.1	10.1
74740-02	8.3	4.2	NA	NA	6.9	5.4	5.4	6.5
74757-08	12.2	6.3	NA	NA	7.7	4.2	2.9	4.4
74757-05	1.6	8.2	NA	NA	1.1	3.3	4.8	2.7
74759-02	7.7	9.7	NA	NA	10.1	0.6	6.5	8.0
74759-05	6.5	5.6	NA	NA	1.9	8.1	5.6	8.1
74764-02	8.2	4.2	NA	NA	8.5	4.0	1.7	3.0
74767-07	6.5	4.6	NA	NA	3.4	3.9	7.4	-2.4
74772-02	5.8	9.0	NA	NA	6.6	6.1	6.6	8.7
74772-08	9.9	8.2	NA	NA	3.6	4.2	4.8	5.3
74773-02	7.7	5.1	NA	NA	-2.3	12.0	-7.5	11.6
74774-03	10.8	10.7	NA	NA	4.6	2.6	8.7	5.3
74789-04	8.3	4.3	NA	NA	7.1	1.9	4.5	7.1
74804-04	8.3	8.9	NA	NA	13.1	4.2	6.2	1.9
74808-01	5.1	8.8	NA	NA	5.4	4.6	4.2	7.7
74810-07	7.4	4.6	NA	NA	4.6	-1.1	5.8	-1.1
74810-02	8.4	3.6	NA	NA	6.4	4.6	-4.2	6.6
74826-05	9.7	1.6	NA	NA	4.8	-6.0	-1.1	1.8
74829-05	7.4	5.1	NA	NA	3.4	7.1	4.2	4.4
74840-02	7.7	4.9	NA	NA	7.7	-3.6	7.1	9.9
74841-02	5.6	8.2	NA	NA	-1.1	6.0	4.6	6.9
74841-06	5.7	8.0	NA	NA	7.5	6.3	0.6	10.1
74844-04	8.0	4.8	NA	NA	1.2	1.3	7.5	8.1
74845-01	2.7	5.5	NA	NA	7.9	4.9	5.9	4.8
74845-03	6.6	12.6	NA	NA	5.7	5.1	2.4	6.3
74854-06	4.4	5.1	NA	NA	3.3	-3.0	15.4	7.4

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74854-02	8.4	7.7	NA	NA	6.7	3.1	2.6	-0.6
74864-06	9.9	5.5	NA	NA	7.9	-1.1	6.0	10.3
74867-03	6.7	9.5	NA	NA	6.4	8.1	5.7	8.8
74867-01	2.6	11.6	NA	NA	9.7	3.3	-3.3	3.7
MEAN	7.2	6.7			5.4	3.1	4.3	5.8
S.D.	2.37	2.61			3.33	4.28	4.35	3.55
N	30	30			30	30	30	30

NA = NOT APPLICABLE

2790 of 3891

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 11

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74742-03	6.1	4.9	NA	NA	4.6	2.7	4.4	5.6
74746-06	9.3	3.2	NA	NA	4.5	-1.4	0.0	6.8
74753-04	6.6	6.9	NA	NA	7.7	3.1	2.6	4.2
74753-02	7.1	5.4	NA	NA	1.2	1.9	5.2	8.7
74761-09	9.7	8.1	NA	NA	7.8	1.4	3.4	4.1
74762-04	3.2	5.7	NA	NA	5.4	7.5	3.6	1.4
74790-09	5.1	9.7	NA	NA	14.3	4.4	3.1	6.5
74782-04	6.5	5.8	NA	NA	0.0	5.8	3.4	8.2
74785-04	8.5	3.8	NA	NA	9.9	6.0	1.2	7.4
74790-02	9.2	9.2	NA	NA	6.2	6.6	6.9	11.4
74796-07	11.8	5.4	NA	NA	7.5	5.0	2.5	5.6
74797-09	5.1	7.1	NA	NA	5.3	7.7	1.1	-1.1
74798-04	8.1	3.0	NA	NA	10.7	0.0	-1.4	7.1
74802-05	9.5	2.6	NA	NA	3.2	7.4	3.0	-3.7
74802-08	6.6	1.2	NA	NA	6.0	-4.1	5.4	7.4
74809-09	2.2	8.2	NA	NA	2.2	-3.2	4.0	0.6
74816-05	13.7	-1.8	NA	NA	8.6	3.1	3.6	2.5
74819-03	8.2	8.2	NA	NA	5.7	-4.8	9.1	1.7
74823-01	6.2	9.9	NA	NA	3.7	0.0	5.2	7.7
74824-05	8.3	7.7	NA	NA	8.2	1.7	4.6	3.6
74835-03	4.6	8.2	NA	NA	6.9	1.8	4.8	7.7
74838-06	4.8	4.2	NA	NA	5.1	-0.6	8.9	7.7
74839-02	7.7	4.0	NA	NA	8.0	0.6	2.3	6.0
74846-03	2.6	5.3	NA	NA	9.9	0.0	1.1	3.0
74856-06	9.5	6.2	NA	NA	13.7	-0.6	-1.3	2.7
74859-06	7.1	0.6	NA	NA	1.9	9.1	1.3	5.2

NA = NOT APPLICABLE

2791 of 3891

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 12

MALE GROUP: 500 PPM

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74861-02	7.5	6.5	NA	NA	6.1	-4.8	5.0	9.1
74863-05	6.6	5.3	NA	NA	5.5	-4.2	1.8	5.1
74863-02	7.4	6.3	NA	NA	8.5	5.5	2.6	8.7
74869-02	7.1	8.0	NA	NA	4.0	2.4	4.6	4.6
MEAN	7.2	5.6			6.4	2.0	3.4	5.2
S.D.	2.50	2.75			3.32	3.98	2.47	3.29
N	30	30			30	30	30	30

NA = NOT APPLICABLE

2792 of 3891

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 13

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74738-02	8.1	5.6	NA	NA	5.4	6.5	1.9	3.1
74739-04	7.4	8.0	NA	NA	3.4	5.4	6.3	10.9
74743-04	6.5	8.8	NA	NA	4.3	9.1	-2.0	8.2
74744-02	9.1	3.9	NA	NA	8.3	6.5	5.8	3.2
74748-05	9.7	4.5	NA	NA	9.3	1.9	0.7	8.8
74748-02	6.8	5.6	NA	NA	10.7	-7.1	9.3	2.9
74752-05	7.5	8.7	NA	NA	5.4	4.6	7.1	4.8
74766-02	16.1	-1.2	NA	NA	1.9	4.5	4.5	3.9
74780-03	4.8	7.4	NA	NA	9.2	2.7	2.2	5.1
74791-05	5.0	6.2	NA	NA	9.9	3.1	6.8	5.2
74791-02	9.9	8.7	NA	NA	6.8	-0.6	9.9	8.1
74793-05	5.4	2.6	NA	NA	6.8	0.6	1.9	11.0
74795-06	6.6	8.3	NA	NA	11.0	2.9	2.3	9.7
74799-03	14.8	8.6	NA	NA	8.5	-0.6	9.1	5.7
74801-10	-0.6	10.3	NA	NA	1.6	-13.6	10.3	7.1
74806-06	7.5	9.7	NA	NA	7.7	5.0	9.5	6.5
74806-03	5.1	-1.2	NA	NA	6.9	2.7	3.3	5.8
74820-02	9.5	7.7	NA	NA	0.0	11.9	3.6	5.6
74821-02	10.3	8.2	NA	NA	13.7	-2.5	11.0	6.0
74830-02	5.1	7.7	NA	NA	7.1	1.9	5.1	12.0
74831-02	3.4	13.8	NA	NA	10.4	-3.6	0.0	5.7
74834-04	9.5	9.9	NA	NA	8.2	2.7	5.6	-4.2
74847-03	7.9	-1.8	NA	NA	1.1	1.3	7.4	6.6
74848-03	10.3	9.2	NA	NA	12.2	-3.0	6.0	9.9
74849-03	6.3	9.5	NA	NA	-1.1	8.8	-3.0	5.7
74850-05	7.7	-3.1	NA	NA	5.7	0.6	6.5	9.5

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-08	6.3	10.1	NA	NA	1.6	4.9	4.2	7.4
74858-04	8.0	8.0	NA	NA	6.0	-1.9	11.5	11.1
74868-02	4.3	9.9	NA	NA	4.8	-2.7	2.0	7.1
74871-06	13.7	5.0	NA	NA	2.4	2.4	2.4	1.9
MEAN	7.7	6.6			6.3	1.8	5.0	6.5
S.D.	3.37	4.04			3.76	5.04	3.79	3.33
N	30	30			30	30	30	30

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 15

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-04	12.2	14.8	NA	NA	12.2	3.4	6.0	7.4
74747-03	8.7	6.9	NA	NA	8.2	-6.3	5.4	11.1
74751-05	6.5	6.3	NA	NA	11.3	6.3	1.9	7.1
74751-02	8.8	4.9	NA	NA	7.9	0.6	5.1	5.7
74754-09	5.6	0.6	NA	NA	3.0	-2.9	4.8	11.2
74755-05	5.4	7.9	NA	NA	8.8	4.2	-0.5	8.2
74768-02	4.6	6.0	NA	NA	8.6	3.6	1.9	7.7
74769-07	5.4	9.5	NA	NA	7.5	0.0	1.4	1.4
74770-06	16.1	2.9	NA	NA	5.4	9.3	5.1	10.3
74786-05	7.1	8.8	NA	NA	10.0	4.9	11.1	-4.4
74786-07	8.1	4.8	NA	NA	9.3	0.0	1.9	1.4
74787-06	6.8	0.6	NA	NA	4.8	0.6	-12.8	-5.6
74792-03	11.9	9.1	NA	NA	5.6	9.5	3.0	3.1
74807-05	10.7	7.9	NA	NA	5.0	-5.6	5.3	8.3
74811-01	7.7	3.7	NA	NA	5.5	5.7	4.9	5.7
74813-08	8.8	7.4	NA	NA	7.7	3.1	6.0	1.3
74817-04	15.4	9.1	NA	NA	4.6	4.2	4.3	7.7
74822-15	0.6	-0.7	NA	NA	-1.4	5.2	4.5	5.2
74822-14	7.4	3.3	NA	NA	4.6	2.4	1.2	7.4
74827-03	-0.7	6.1	NA	NA	3.4	4.8	6.1	9.1
74832-03	6.6	4.4	NA	NA	7.7	1.2	1.2	7.7
74833-02	9.0	6.0	NA	NA	5.3	-3.7	6.9	8.8
74836-08	11.2	5.8	NA	NA	7.4	6.6	5.5	3.8
74853-06	9.1	3.0	NA	NA	3.4	0.0	7.1	1.9
74857-10	12.2	7.1	NA	NA	8.2	5.3	6.3	7.4
74860-03	9.9	4.6	NA	NA	13.7	-37.8	23.6	11.1

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 202 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-02	14.9	14.3	NA	NA	5.1	9.9	10.4	11.1
74862-08	9.3	9.1	NA	NA	8.1	-2.7	6.8	6.1
74866-01	10.3	6.6	NA	NA	7.1	10.2	10.6	4.1
74870-06	14.3	10.3	NA	NA	1.9	6.9	8.7	3.6
MEAN	8.8	6.4			6.7	1.6	5.1	5.8
S.D.	3.89	3.54			3.14	8.65	5.56	4.21
N	30	30			30	30	30	30

NA = NOT APPLICABLE

2796 of 3891

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 0 PPM

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74737-03	-19.3	16.1	2.1	SCHEDULED	EUTH	DAY	268
74740-02	0.0	6.0	0.0	SCHEDULED	EUTH	DAY	269
74757-08	-0.5	4.9	4.9	SCHEDULED	EUTH	DAY	269
74757-05	-9.1	14.3	1.6	SCHEDULED	EUTH	DAY	267
74759-02	1.9	-3.4	4.2	SCHEDULED	EUTH	DAY	267
74759-05	-3.4	5.2	0.0	SCHEDULED	EUTH	DAY	269
74764-02	4.6	-5.0	9.3	SCHEDULED	EUTH	DAY	267
74767-07	-3.9	6.8	2.4	SCHEDULED	EUTH	DAY	266
74772-02	-5.5	3.8	1.6	SCHEDULED	EUTH	DAY	266
74772-08	2.2	0.5	1.1	SCHEDULED	EUTH	DAY	266
74773-02	-5.6	-11.3	-1.9	SCHEDULED	EUTH	DAY	269
74774-03	-7.1	8.8	2.2	SCHEDULED	EUTH	DAY	266
74789-04	3.7	-3.6	5.6	SCHEDULED	EUTH	DAY	266
74804-04	5.0	8.7	-0.6	SCHEDULED	EUTH	DAY	269
74808-01	2.1	6.9	3.6	SCHEDULED	EUTH	DAY	267
74810-07	-6.5	-0.6	2.6	SCHEDULED	EUTH	DAY	268
74810-02	-1.1	2.7	1.1	SCHEDULED	EUTH	DAY	269
74826-05	3.1	-3.6	2.4	SCHEDULED	EUTH	DAY	267
74829-05	-0.6	-2.7	3.1	SCHEDULED	EUTH	DAY	268
74840-02	-9.7	9.7	-1.1	SCHEDULED	EUTH	DAY	268
74841-02	0.6	0.6	2.9	SCHEDULED	EUTH	DAY	269
74841-06	-2.7	0.0	-8.8	SCHEDULED	EUTH	DAY	268
74844-04	2.6	-0.6	1.3	SCHEDULED	EUTH	DAY	266
74845-01	2.6	-1.6	0.5	SCHEDULED	EUTH	DAY	267
74845-03	-1.2	11.3	3.8	SCHEDULED	EUTH	DAY	268
74854-06	-5.0	-4.0	3.0	SCHEDULED	EUTH	DAY	266

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 0 PPM

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266		
ANIMAL					
74854-02	2.7	4.6	8.2	SCHEDULED EUTH DAY	268
74864-06	0.5	1.2	1.1	SCHEDULED EUTH DAY	267
74867-03	2.5	4.6	-9.5	SCHEDULED EUTH DAY	266
74867-01	3.7	2.2	3.7	SCHEDULED EUTH DAY	268
MEAN	-1.4	2.8	1.7		
S.D.	5.34	6.10	3.81		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 500 PPM

PAGE 19

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74742-03	-6.3	4.8	3.8	SCHEDULED	EUTH	DAY	268
74746-06	2.1	8.2	0.0	SCHEDULED	EUTH	DAY	269
74753-04	3.7	2.7	-2.2	SCHEDULED	EUTH	DAY	268
74753-02	-4.5	6.8	3.2	SCHEDULED	EUTH	DAY	268
74761-09	1.5	5.4	7.1	SCHEDULED	EUTH	DAY	267
74762-04	2.9	11.4	0.0	SCHEDULED	EUTH	DAY	266
74790-09	5.4	6.3	5.4	SCHEDULED	EUTH	DAY	269
74782-04	2.3	4.8	3.4	SCHEDULED	EUTH	DAY	269
74785-04	1.8	3.0	6.0	SCHEDULED	EUTH	DAY	269
74790-02	2.6	2.9	-6.2	SCHEDULED	EUTH	DAY	266
74796-07	3.4	5.6	1.9	SCHEDULED	EUTH	DAY	267
74797-09	11.3	3.8	4.8	SCHEDULED	EUTH	DAY	268
74798-04	3.9	7.5	0.0	SCHEDULED	EUTH	DAY	267
74802-05	8.8	0.0	-0.8	SCHEDULED	EUTH	DAY	267
74802-08	0.0	0.6	-2.6	SCHEDULED	EUTH	DAY	266
74809-09	-5.0	10.7	6.3	SCHEDULED	EUTH	DAY	269
74816-05	0.0	NA	6.3	SCHEDULED	EUTH	DAY	267
74819-03	2.6	-1.2	4.3	SCHEDULED	EUTH	DAY	266
74823-01	-5.4	9.5	-2.7	SCHEDULED	EUTH	DAY	269
74824-05	13.7	1.2	3.0	SCHEDULED	EUTH	DAY	268
74835-03	1.3	6.2	3.6	SCHEDULED	EUTH	DAY	269
74838-06	1.3	-4.3	3.9	SCHEDULED	EUTH	DAY	266
74839-02	8.0	2.3	1.1	SCHEDULED	EUTH	DAY	268
74846-03	1.2	4.3	0.0	SCHEDULED	EUTH	DAY	266
74856-06	-6.4	NA	26.2	SCHEDULED	EUTH	DAY	266
74859-06	-2.0	3.4	9.3	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 500 PPM

PAGE 20

DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74861-02	9.5	9.5	2.7	SCHEDULED EUTH DAY	269
74863-05	5.7	-5.8	9.3	SCHEDULED EUTH DAY	268
74863-02	-5.1	3.1	2.1	SCHEDULED EUTH DAY	267
74869-02	8.3	0.6	5.1	SCHEDULED EUTH DAY	267
MEAN	2.2	4.0	3.5		
S.D.	5.24	4.13	5.59		
N	30	28	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 1000 PPM

PAGE 21

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74738-02	5.8	3.7	5.4	SCHEDULED	EUTH	DAY	266
74739-04	1.2	-4.3	3.7	SCHEDULED	EUTH	DAY	266
74743-04	2.7	-14.3	6.8	SCHEDULED	EUTH	DAY	269
74744-02	2.6	4.1	-7.6	SCHEDULED	EUTH	DAY	266
74748-05	4.8	6.1	1.9	SCHEDULED	EUTH	DAY	267
74748-02	0.8	3.6	2.9	SCHEDULED	EUTH	DAY	268
74752-05	3.6	0.0	6.0	SCHEDULED	EUTH	DAY	268
74766-02	5.8	9.1	0.6	SCHEDULED	EUTH	DAY	267
74780-03	4.4	8.6	-1.1	SCHEDULED	EUTH	DAY	269
74791-05	1.3	4.1	4.5	SCHEDULED	EUTH	DAY	269
74791-02	9.3	-1.9	1.2	SCHEDULED	EUTH	DAY	268
74793-05	-4.1	2.0	5.6	SCHEDULED	EUTH	DAY	266
74795-06	-4.0	-1.2	0.0	SCHEDULED	EUTH	DAY	266
74799-03	-4.3	4.9	1.1	SCHEDULED	EUTH	DAY	268
74801-10	-2.3	0.0	5.1	SCHEDULED	EUTH	DAY	267
74806-06	3.6	2.5	3.7	SCHEDULED	EUTH	DAY	267
74806-03	4.4	-2.4	9.7	SCHEDULED	EUTH	DAY	269
74820-02	4.3	0.6	6.2	SCHEDULED	EUTH	DAY	268
74821-02	-3.1	6.2	4.6	SCHEDULED	EUTH	DAY	267
74830-02	-3.0	5.0	6.3	SCHEDULED	EUTH	DAY	269
74831-02	9.7	1.7	-1.7	SCHEDULED	EUTH	DAY	268
74834-04	12.6	2.7	0.5	SCHEDULED	EUTH	DAY	267
74847-03	2.9	9.7	1.7	SCHEDULED	EUTH	DAY	269
74848-03	8.7	-1.2	0.0	SCHEDULED	EUTH	DAY	267
74849-03	5.1	1.1	5.1	SCHEDULED	EUTH	DAY	268
74850-05	-4.5	-0.7	2.5	SCHEDULED	EUTH	DAY	268

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 1000 PPM

PAGE 22

DAY	246 TO 253	253 TO 260	260 TO 266		
ANIMAL					
74855-08	3.1	-1.9	3.8	SCHEDULED EUTH DAY	269
74858-04	7.7	0.0	-9.7	SCHEDULED EUTH DAY	266
74868-02	-2.9	12.7	-9.0	SCHEDULED EUTH DAY	266
74871-06	4.3	3.9	4.8	SCHEDULED EUTH DAY	266
MEAN	2.7	2.1	2.2		
S.D.	4.61	5.04	4.53		
N	30	30	30		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 2500 PPM

PAGE 23

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-04	4.8	-7.5	0.0	SCHEDULED	EUTH	DAY	268
74747-03	-2.5	-6.8	4.0	SCHEDULED	EUTH	DAY	266
74751-05	-1.2	5.1	6.6	SCHEDULED	EUTH	DAY	267
74751-02	0.0	4.3	0.6	SCHEDULED	EUTH	DAY	268
74754-09	1.9	0.0	3.9	SCHEDULED	EUTH	DAY	268
74755-05	3.8	4.0	3.4	SCHEDULED	EUTH	DAY	269
74768-02	-0.6	2.4	8.2	SCHEDULED	EUTH	DAY	266
74769-07	2.0	1.4	2.0	SCHEDULED	EUTH	DAY	268
74770-06	-0.5	0.6	4.1	SCHEDULED	EUTH	DAY	268
74786-05	5.8	8.4	-1.0	SCHEDULED	EUTH	DAY	266
74786-07	-0.6	11.0	-3.9	SCHEDULED	EUTH	DAY	269
74787-06	6.8	8.3	2.4	SCHEDULED	EUTH	DAY	266
74792-03	3.1	1.9	0.6	SCHEDULED	EUTH	DAY	267
74807-05	5.6	4.1	7.1	SCHEDULED	EUTH	DAY	269
74811-01	-5.1	6.3	2.7	SCHEDULED	EUTH	DAY	267
74813-08	0.0	1.9	5.8	SCHEDULED	EUTH	DAY	268
74817-04	1.3	-2.9	2.0	SCHEDULED	EUTH	DAY	269
74822-15	2.6	-7.4	2.0	SCHEDULED	EUTH	DAY	266
74822-14	9.3	-4.4	6.9	SCHEDULED	EUTH	DAY	266
74827-03	-1.5	0.0	8.8	SCHEDULED	EUTH	DAY	266
74832-03	4.8	4.3	-1.8	SCHEDULED	EUTH	DAY	267
74833-02	6.0	-4.2	1.2	SCHEDULED	EUTH	DAY	269
74836-08	2.3	2.1	1.7	SCHEDULED	EUTH	DAY	267
74853-06	0.0	4.2	8.0	SCHEDULED	EUTH	DAY	267
74857-10	1.6	6.3	3.3	SCHEDULED	EUTH	DAY	268
74860-03	6.3	1.1	4.9	SCHEDULED	EUTH	DAY	269

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 202 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
MALE GROUP: 2500 PPM

PAGE 24

DAY	246 TO 253	253 TO 260	260 TO 266		
ANIMAL					
74860-02	4.6	2.4	0.6	SCHEDULED EUTH DAY	269
74862-08	-2.3	4.1	1.4	SCHEDULED EUTH DAY	269
74866-01	6.3	3.1	7.4	SCHEDULED EUTH DAY	267
74870-06	-0.5	5.6	8.4	SCHEDULED EUTH DAY	267
MEAN	2.1	2.0	3.4		
S.D.	3.39	4.63	3.29		
N	30	30	30		

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74737-14	27.1	17.7	20.4	16.3	3.4	4.8	13.6	7.1
74737-10	19.8	27.1	9.0	18.0	8.3	4.8	3.2	9.0
74740-07	17.9	14.3	12.9	5.4	0.0	24.6	9.5	2.0
74757-11	21.4	15.0	15.8	12.9	9.3	5.3	9.3	-3.2
74759-09	23.2	8.4	18.3	11.8	4.8	4.8	11.9	2.4
74764-10	26.2	18.0	12.2	17.5	14.3	7.1	NA	11.0
74767-16	27.8	19.0	9.5	14.9	8.3	4.2	6.5	6.2
74767-10	22.1	13.5	22.4	6.8	10.9	6.1	3.6	12.2
74772-09	31.9	22.6	16.4	13.5	10.5	11.4	6.4	12.2
74773-15	20.6	21.4	15.1	4.0	17.3	-3.2	11.1	6.0
74773-08	22.2	20.0	12.0	10.7	10.2	8.2	7.5	0.7
74774-15	30.0	20.8	24.2	16.8	13.1	6.2	9.5	12.5
74789-10	36.1	19.0	23.8	10.9	14.3	5.6	9.2	5.6
74789-09	26.7	24.4	22.2	17.3	9.0	15.8	6.0	9.8
74804-11	30.2	20.3	15.8	18.0	2.9	11.3	12.8	6.8
74804-08	27.8	21.1	17.3	10.0	12.9	7.5	8.3	-6.0
74808-13	23.3	19.3	18.4	2.1	17.0	2.9	12.9	2.3
74808-11	22.2	18.0	15.8	15.0	3.0	16.5	3.0	9.0
74810-16	18.8	18.6	12.9	14.3	6.8	3.6	13.6	0.0
74826-11	20.0	21.8	10.0	9.1	9.9	9.9	6.8	1.9
74826-08	25.6	21.1	8.6	7.9	12.4	5.8	5.4	-0.6
74829-11	25.2	18.2	12.3	3.7	14.9	7.1	1.3	-2.7
74840-03	30.7	17.5	9.5	17.7	5.4	3.6	20.1	-5.2
74841-12	22.2	16.5	12.7	10.3	2.4	6.0	8.7	-0.8
74844-05	26.3	18.6	15.0	16.4	9.3	4.5	14.3	4.3
74844-07	25.0	18.3	22.2	12.7	10.5	3.8	10.5	2.3

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 2

FEMALE GROUP: 0 PPM

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74845-07	26.8	15.0	15.0	6.4	18.2	6.8	4.8	2.7
74854-08	28.6	22.9	14.3	14.3	4.3	12.8	9.3	5.0
74864-15	31.7	16.7	21.1	11.9	14.3	8.7	5.6	10.5
74867-07	15.0	22.0	13.7	9.7	2.9	16.9	9.1	-3.9
MEAN	25.1	18.9	15.6	11.9	9.4	7.8	8.8	4.0
S.D.	4.75	3.60	4.58	4.65	4.95	5.36	4.08	5.40
N	30	30	30	30	30	30	29	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 3

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74742-18	21.0	21.0	14.3	8.0	13.4	8.9	8.9	1.0
74746-10	22.9	23.4	18.8	12.3	16.9	-0.7	15.5	6.8
74753-12	27.0	24.8	9.3	22.9	5.0	9.3	3.8	13.6
74761-12	30.4	23.0	22.7	11.9	9.8	16.5	0.8	8.3
74762-11	32.1	12.5	26.2	15.1	5.3	12.1	7.5	13.6
74782-09	34.3	21.8	14.3	16.7	13.5	8.7	7.9	5.9
74785-08	23.8	22.7	18.5	15.0	11.3	4.0	1.7	10.3
74790-15	11.4	9.8	19.6	12.7	16.8	2.4	8.7	5.6
74790-14	21.1	21.4	15.5	12.9	8.4	8.2	6.4	2.1
74796-15	23.8	22.4	16.8	9.7	14.3	9.5	8.2	3.1
74797-12	21.4	17.5	19.0	9.8	1.5	11.4	4.8	9.5
74798-13	26.9	24.8	9.8	15.0	12.1	10.5	3.2	10.5
74798-12	23.3	21.8	20.0	12.0	18.8	3.0	11.3	9.8
74802-10	29.3	18.8	16.1	7.8	5.2	4.1	7.5	5.0
74809-08	22.7	16.7	17.1	10.3	8.7	-0.8	7.9	8.4
74816-12	16.8	19.0	10.1	18.0	13.5	3.8	9.5	5.3
74819-10	23.0	18.0	19.5	14.3	8.6	10.0	10.0	6.8
74823-12	23.8	10.2	15.6	13.7	7.7	5.6	9.3	5.0
74824-11	31.1	20.2	21.1	12.1	14.3	10.7	6.8	4.5
74835-11	19.4	13.3	8.2	15.2	8.6	2.7	0.0	15.2
74835-07	8.4	27.9	15.0	5.2	7.1	15.0	7.5	5.3
74838-11	18.3	13.5	12.8	5.7	15.7	7.1	5.0	2.1
74839-18	21.1	21.8	19.3	8.6	5.0	10.0	7.9	1.4
74846-07	12.8	17.9	12.8	10.5	6.4	-2.4	5.6	5.0
74856-15	26.9	21.1	14.3	12.1	11.0	7.8	5.0	5.8
74859-09	31.1	27.7	12.6	8.7	17.5	9.2	5.9	-0.8

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 4

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74859-12	25.2	17.0	16.4	13.6	7.9	11.6	7.1	6.4
74861-05	26.1	16.7	18.3	9.5	14.3	6.0	6.7	7.9
74863-10	23.8	18.8	14.9	12.3	3.2	10.6	9.3	6.5
74869-04	23.0	18.6	14.3	12.2	11.6	10.9	5.7	8.8
MEAN	23.4	19.5	16.1	12.1	10.4	7.5	6.8	6.6
S.D.	5.97	4.55	4.08	3.67	4.58	4.57	3.14	3.79
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74738-07	22.9	15.8	17.9	13.6	8.6	3.6	11.4	8.3
74738-12	28.6	18.3	21.1	12.8	7.9	15.0	1.5	13.5
74739-08	23.6	20.4	7.5	18.6	2.6	10.4	3.2	12.3
74743-08	23.3	20.7	12.9	10.2	4.3	13.6	3.6	3.0
74744-16	36.6	24.1	12.8	16.4	16.5	7.5	0.8	9.8
74748-11	31.6	25.0	20.5	16.8	11.8	9.8	4.5	5.9
74752-10	17.9	14.3	4.1	19.6	2.5	13.1	7.1	2.9
74766-13	26.2	19.5	14.3	17.3	8.4	3.2	7.6	4.0
74780-04	15.1	17.3	21.1	8.3	20.1	7.1	5.2	4.5
74791-13	25.7	20.2	11.8	11.9	6.3	10.1	7.6	8.9
74793-14	26.1	19.8	13.5	16.7	9.5	7.9	2.4	8.7
74795-09	22.1	19.6	19.2	17.1	-7.5	10.9	8.2	4.2
74799-14	25.9	12.6	22.2	11.9	11.1	-1.7	11.9	5.4
74801-14	25.5	19.9	16.9	14.3	11.7	5.4	9.3	1.4
74806-11	21.8	23.8	18.0	11.1	9.0	9.8	5.3	8.3
74820-12	22.7	18.3	9.2	8.7	13.5	8.7	2.4	3.4
74821-09	23.8	17.1	22.4	7.5	19.5	7.5	7.8	1.9
74821-07	23.0	18.6	19.0	8.8	5.7	7.1	6.0	4.8
74830-11	33.9	21.1	14.3	13.0	16.2	2.7	1.4	10.4
74831-12	24.8	23.8	17.7	4.3	14.3	12.9	0.8	-3.8
74834-07	21.1	18.8	11.9	11.9	-2.4	14.3	8.7	3.2
74847-09	19.3	17.5	18.3	20.0	11.4	8.2	10.7	12.9
74848-04	26.1	19.0	18.3	20.3	7.9	10.3	1.6	13.5
74849-07	19.6	23.8	13.5	6.3	19.5	9.0	1.4	9.3
74850-11	21.4	23.8	18.3	13.4	6.0	8.7	6.7	6.3
74850-14	23.0	24.6	14.3	11.1	5.6	15.0	3.4	6.7

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 1000 PPM

PAGE 6

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74855-11	18.3	18.0	13.5	7.5	13.6	5.7	4.0	2.9
74858-14	23.3	24.3	15.7	13.6	7.9	6.8	8.6	7.9
74868-20	39.5	10.3	28.6	22.1	13.5	7.5	-1.5	12.9
74871-09	21.0	16.8	15.9	15.0	15.8	7.1	3.8	12.8
MEAN	24.5	19.6	16.2	13.3	9.7	8.6	5.2	6.9
S.D.	5.32	3.63	4.91	4.53	6.30	3.82	3.51	4.29
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 7

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74747-17	22.2	15.8	14.3	18.0	10.5	0.7	13.6	6.4
74751-13	24.1	12.8	15.8	9.0	15.7	14.3	-0.8	-0.8
74754-15	27.6	27.7	16.0	21.4	11.9	12.7	0.0	8.3
74755-01	17.0	16.8	10.1	4.2	12.7	6.3	4.0	0.0
74768-11	24.1	22.9	11.4	14.9	11.7	7.1	5.8	8.2
74769-08	31.1	23.5	15.9	21.1	11.9	9.8	3.2	9.5
74770-11	27.7	18.3	23.6	16.4	15.0	2.1	11.7	7.5
74770-10	27.9	24.5	7.5	14.3	14.9	10.4	-2.6	8.7
74786-10	8.9	16.0	11.8	8.9	9.2	13.5	8.3	6.8
74787-10	21.8	17.5	12.8	5.3	10.7	9.8	3.8	6.0
74792-11	21.4	19.5	15.7	10.5	12.1	3.6	7.1	11.4
74792-12	25.0	18.8	21.0	13.4	13.4	5.9	7.6	8.9
74807-08	21.8	21.0	9.2	15.1	3.4	15.9	4.8	12.8
74811-13	22.2	11.8	19.0	8.7	10.1	3.2	6.7	9.5
74813-12	24.4	19.0	15.1	4.8	11.1	7.1	8.4	-1.6
74817-13	31.0	24.3	15.7	12.9	11.4	10.0	6.8	10.7
74822-08	8.9	22.7	16.8	8.4	1.7	14.3	7.1	9.2
74827-11	23.8	16.2	23.5	10.5	18.1	8.6	7.1	9.5
74832-07	23.2	16.0	15.1	10.1	10.1	4.0	9.2	3.4
74833-11	14.3	16.7	21.4	9.3	6.0	11.6	-3.0	12.2
74836-12	20.3	15.7	12.2	18.8	12.3	5.4	1.4	12.9
74836-11	23.3	19.5	17.3	13.5	6.0	11.3	3.8	11.3
74853-11	24.8	22.3	20.2	12.0	12.8	4.8	10.9	-0.8
74853-12	22.1	23.1	13.6	15.7	0.0	15.0	9.8	-0.8
74857-14	19.0	21.8	0.0	29.9	12.2	12.9	7.1	-0.8
74857-09	16.8	23.8	12.6	16.4	7.1	16.3	7.9	14.3

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 8

DAY	134 TO 141	141 TO 148	148 TO 155	155 TO 162	162 TO 169	169 TO 176	176 TO 183	183 TO 190
ANIMAL								
74860-08	24.6	21.1	18.8	7.5	20.0	6.0	11.3	-0.8
74862-13	24.6	17.5	24.6	-3.2	6.7	14.3	10.3	7.1
74866-16	19.8	15.0	11.9	17.1	10.2	11.4	15.0	1.3
74870-03	24.7	24.4	8.9	17.0	14.3	5.8	3.9	8.7
MEAN	22.3	19.5	15.1	12.7	10.8	9.1	6.3	6.6
S.D.	5.22	3.89	5.30	6.31	4.42	4.43	4.44	4.94
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 9

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74737-14	0.0	6.1	NA	NA	13.4	-7.6	15.0	3.6
74737-10	6.3	-2.5	NA	NA	NA	NA	NA	NA
74740-07	7.8	2.6	NA	NA	NA	NA	NA	-1.6
74757-11	10.1	3.2	NA	NA	NA	NA	NA	-1.7
74759-09	5.9	-4.5	NA	NA	NA	NA	NA	NA
74764-10	6.8	1.3	NA	NA	NA	NA	NA	NA
74767-16	-6.8	12.3	NA	NA	NA	NA	NA	NA
74767-10	-0.7	6.0	NA	NA	NA	NA	NA	NA
74772-09	-0.8	-1.7	NA	NA	NA	NA	NA	NA
74773-15	4.2	0.0	NA	NA	NA	NA	NA	NA
74773-08	3.0	6.8	NA	NA	NA	NA	NA	NA
74774-15	0.0	1.3	NA	NA	NA	NA	NA	2.9
74789-10	6.7	-1.8	NA	NA	NA	NA	NA	NA
74789-09	4.8	0.8	NA	NA	NA	NA	NA	NA
74804-11	-3.8	10.3	NA	NA	NA	NA	NA	NA
74804-08	9.0	5.0	NA	NA	NA	NA	NA	NA
74808-13	6.4	-6.3	NA	NA	NA	NA	NA	NA
74808-11	1.6	-5.0	NA	NA	NA	NA	NA	NA
74810-16	6.1	4.3	NA	NA	NA	NA	NA	NA
74826-11	8.3	7.5	NA	NA	NA	NA	7.9	2.1
74826-08	6.8	6.4	NA	NA	NA	NA	NA	NA
74829-11	8.8	3.6	NA	NA	NA	NA	NA	NA
74840-03	5.0	4.8	NA	NA	NA	NA	NA	NA
74841-12	1.7	3.4	NA	NA	NA	NA	NA	NA
74844-05	9.5	2.9	NA	NA	NA	NA	10.9	2.0
74844-07	4.8	1.6	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 0 PPM

PAGE 10

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74845-07	6.1	5.0	NA	NA	NA	NA	NA	NA
74854-08	-10.1	6.7	NA	NA	NA	NA	NA	12.1
74864-15	1.6	5.0	NA	NA	NA	NA	NA	10.7
74867-07	-5.6	11.9	NA	NA	NA	NA	NA	NA
MEAN	3.5	3.2			13.4	-7.6	11.3	3.8
S.D.	5.09	4.61			0.00	0.00	3.56	5.11
N	30	30			1	1	3	8

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 11

FEMALE GROUP: 500 PPM

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74742-18	9.8	5.7	NA	NA	NA	NA	NA	NA
74746-10	5.7	7.1	NA	NA	NA	NA	NA	NA
74753-12	6.0	1.5	NA	NA	NA	NA	NA	NA
74761-12	7.1	0.8	NA	NA	NA	NA	NA	NA
74762-11	2.9	4.0	NA	NA	NA	NA	NA	NA
74782-09	8.0	1.0	NA	NA	NA	NA	NA	NA
74785-08	-0.8	5.0	NA	NA	NA	NA	NA	NA
74790-15	0.8	0.0	NA	NA	NA	NA	NA	NA
74790-14	2.3	5.3	NA	NA	NA	NA	NA	NA
74796-15	3.1	7.4	NA	NA	NA	NA	NA	NA
74797-12	-4.2	5.0	NA	NA	NA	NA	NA	5.0
74798-13	10.0	-12.5	NA	NA	NA	NA	NA	NA
74798-12	3.8	2.3	NA	NA	NA	NA	NA	NA
74802-10	1.4	4.3	NA	NA	NA	NA	NA	NA
74809-08	-0.9	-2.7	NA	NA	NA	NA	NA	NA
74816-12	1.7	7.6	NA	NA	NA	NA	NA	NA
74819-10	-0.8	3.8	NA	NA	NA	NA	NA	NA
74823-12	0.0	6.2	NA	NA	NA	NA	NA	NA
74824-11	6.8	5.6	NA	NA	-4.2	10.3	0.0	0.0
74835-11	0.0	4.8	NA	NA	NA	NA	NA	-1.9
74835-07	0.0	4.8	NA	NA	NA	NA	NA	NA
74838-11	9.3	2.4	NA	NA	NA	NA	NA	NA
74839-18	-0.7	8.2	NA	NA	NA	NA	NA	7.1
74846-07	2.4	6.3	NA	NA	NA	NA	NA	NA
74856-15	2.0	1.8	NA	NA	NA	NA	NA	NA
74859-09	10.9	4.5	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 12

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
FEMALE GROUP: 500 PPM								
ANIMAL								
74859-12	2.1	0.8	NA	NA	NA	NA	NA	NA
74861-05	4.2	1.7	NA	NA	NA	NA	NA	NA
74863-10	1.3	4.8	NA	NA	3.2	1.9	2.3	6.8
74869-04	-5.7	12.0	NA	NA	NA	NA	NA	NA
MEAN	3.0	3.7			-0.5	6.1	1.2	3.4
S.D.	4.15	4.23			5.23	5.94	1.63	4.11
N	30	30			2	2	2	5

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 13

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74738-07	0.8	1.6	NA	NA	NA	NA	NA	NA
74738-12	1.5	4.0	NA	NA	NA	NA	NA	NA
74739-08	-10.5	10.2	NA	NA	NA	NA	NA	4.8
74743-08	-0.8	8.6	NA	NA	26.0	NA	NA	NA
74744-16	8.7	1.6	NA	NA	-0.9	-0.9	14.3	3.6
74748-11	10.9	4.5	NA	NA	NA	NA	NA	NA
74752-10	8.6	3.1	NA	NA	NA	NA	NA	NA
74766-13	0.0	10.1	NA	NA	1.0	-2.9	8.6	-1.9
74780-04	-3.6	11.6	NA	NA	NA	NA	NA	NA
74791-13	-54.8	20.7	NA	NA	NA	NA	NA	NA
74793-14	6.3	5.0	NA	NA	NA	NA	NA	NA
74795-09	-0.6	3.2	NA	NA	NA	NA	NA	6.5
74799-14	3.6	-3.6	NA	NA	NA	NA	NA	NA
74801-14	20.6	-11.3	NA	NA	-33.8	6.7	-2.9	6.3
74806-11	1.6	5.3	NA	NA	NA	NA	NA	NA
74820-12	5.9	6.3	NA	NA	NA	NA	NA	NA
74821-09	9.1	6.1	NA	NA	NA	NA	NA	NA
74821-07	1.6	5.6	NA	NA	NA	NA	NA	NA
74830-11	5.0	6.0	NA	NA	NA	NA	-0.8	-1.5
74831-12	8.6	5.3	NA	NA	NA	NA	NA	NA
74834-07	-6.3	10.9	NA	NA	NA	NA	NA	NA
74847-09	4.0	3.0	NA	NA	NA	NA	NA	NA
74848-04	5.6	-0.8	NA	NA	NA	NA	NA	NA
74849-07	10.5	-2.4	NA	NA	NA	NA	NA	NA
74850-11	0.8	6.7	NA	NA	NA	NA	NA	NA
74850-14	0.8	8.4	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 1000 PPM

PAGE 14

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74855-11	8.2	3.0	NA	NA	NA	NA	NA	NA
74858-14	-3.2	7.5	NA	NA	NA	NA	NA	5.3
74868-20	4.0	-3.6	NA	NA	NA	NA	NA	NA
74871-09	3.0	4.8	NA	NA	NA	NA	NA	NA
MEAN	1.7	4.7			-1.9	1.0	4.8	3.3
S.D.	12.20	5.74			24.53	5.06	8.07	3.55
N	30	30			4	3	4	7

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 15

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74747-17	7.1	-6.0	NA	NA	-11.6	4.2	17.5	-4.2
74751-13	10.3	6.7	NA	NA	NA	NA	NA	NA
74754-15	4.8	4.0	NA	NA	NA	NA	NA	NA
74755-01	8.7	5.0	NA	NA	8.6	0.8	9.8	-4.5
74768-11	2.7	2.0	NA	NA	NA	NA	NA	NA
74769-08	6.7	-2.7	NA	NA	NA	NA	NA	NA
74770-11	6.0	-4.5	NA	NA	NA	NA	NA	NA
74770-10	12.3	0.7	NA	NA	NA	NA	NA	NA
74786-10	5.3	4.3	NA	NA	NA	NA	NA	NA
74787-10	3.2	6.4	NA	NA	-3.6	8.6	6.7	0.8
74792-11	0.8	1.7	NA	NA	7.6	3.2	7.5	4.8
74792-12	4.8	1.9	NA	NA	NA	NA	NA	NA
74807-08	0.8	5.6	NA	NA	NA	NA	NA	NA
74811-13	1.8	1.7	NA	NA	NA	NA	NA	NA
74813-12	10.3	0.0	NA	NA	NA	NA	0.0	6.7
74817-13	8.3	-0.8	NA	NA	NA	NA	NA	NA
74822-08	-5.4	8.4	NA	NA	NA	NA	NA	NA
74827-11	0.0	3.8	NA	NA	NA	NA	NA	NA
74832-07	0.0	5.9	NA	NA	NA	NA	NA	NA
74833-11	-2.4	10.0	NA	NA	NA	NA	NA	NA
74836-12	7.9	1.5	NA	NA	NA	NA	NA	NA
74836-11	-0.8	12.0	NA	NA	NA	NA	NA	NA
74853-11	7.6	9.2	NA	NA	NA	NA	NA	NA
74853-12	0.8	4.0	NA	NA	NA	NA	NA	NA
74857-14	10.0	3.0	NA	NA	-61.9	12.3	5.0	10.1
74857-09	5.8	-11.3	NA	NA	NA	NA	NA	NA

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
 FEMALE GROUP: 2500 PPM

PAGE 16

DAY	190 TO 197	197 TO 204	204 TO 211	211 TO 218	218 TO 225	225 TO 232	232 TO 239	239 TO 246
ANIMAL								
74860-08	4.5	5.6	NA	NA	NA	NA	NA	NA
74862-13	2.5	5.4	NA	NA	NA	NA	NA	NA
74866-16	7.1	14.3	NA	NA	NA	NA	NA	NA
74870-03	8.8	1.4	NA	NA	NA	NA	NA	NA
MEAN	4.7	3.3			-12.2	5.8	7.8	2.3
S.D.	4.25	5.24			29.02	4.59	5.80	5.95
N	30	30			5	5	6	6

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 0 PPM

PAGE 17

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74737-14	0.0	9.5	2.3	SCHEDULED	EUTH	DAY	266
74737-10	NA	-2.0	9.3	SCHEDULED	EUTH	DAY	266
74740-07	6.8	2.9	9.9	SCHEDULED	EUTH	DAY	267
74757-11	5.4	6.3	-0.8	SCHEDULED	EUTH	DAY	268
74759-09	NA	-9.5	8.6	SCHEDULED	EUTH	DAY	268
74764-10	NA	4.9	16.3	SCHEDULED	EUTH	DAY	268
74767-16	NA	-6.0	9.5	SCHEDULED	EUTH	DAY	269
74767-10	NA	7.1	3.7	SCHEDULED	EUTH	DAY	267
74772-09	NA	4.3	3.0	SCHEDULED	EUTH	DAY	269
74773-15	NA	NA	0.0	SCHEDULED	EUTH	DAY	269
74773-08	NA	9.7	-0.6	SCHEDULED	EUTH	DAY	266
74774-15	-0.7	8.8	7.1	SCHEDULED	EUTH	DAY	268
74789-10	NA	-15.0	4.8	SCHEDULED	EUTH	DAY	266
74789-09	NA	-2.5	5.2	SCHEDULED	EUTH	DAY	267
74804-11	NA	NA	NA	SCHEDULED	EUTH	DAY	268
74804-08	NA	12.9	1.4	SCHEDULED	EUTH	DAY	268
74808-13	NA	-19.3	6.1	SCHEDULED	EUTH	DAY	267
74808-11	NA	-29.3	6.1	SCHEDULED	EUTH	DAY	266
74810-16	NA	-1.8	-6.5	SCHEDULED	EUTH	DAY	269
74826-11	4.1	1.4	8.4	SCHEDULED	EUTH	DAY	266
74826-08	NA	7.1	-4.8	SCHEDULED	EUTH	DAY	266
74829-11	NA	2.3	0.7	SCHEDULED	EUTH	DAY	267
74840-03	NA	NA	3.2	SCHEDULED	EUTH	DAY	268
74841-12	NA	-8.3	-1.7	SCHEDULED	EUTH	DAY	266
74844-05	6.1	-7.1	8.6	SCHEDULED	EUTH	DAY	269
74844-07	NA	NA	5.6	SCHEDULED	EUTH	DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 0 PPM

PAGE 18

DAY	246 TO 253	253 TO 260	260 TO 266	
-----				
ANIMAL				
74845-07	NA	4.8	-1.9	SCHEDULED EUTH DAY 268
74854-08	-1.4	2.7	7.9	SCHEDULED EUTH DAY 269
74864-15	2.5	-6.3	7.1	SCHEDULED EUTH DAY 267
74867-07	NA	-0.8	6.7	SCHEDULED EUTH DAY 267
MEAN	2.9	-0.9	4.3	
S.D.	3.23	9.78	4.99	
N	8	26	29	

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 500 PPM

PAGE 19

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74742-18	NA	7.5	1.8	SCHEDULED	EUTH	DAY	268
74746-10	NA	9.5	5.2	SCHEDULED	EUTH	DAY	267
74753-12	NA	-3.4	1.5	SCHEDULED	EUTH	DAY	269
74761-12	NA	2.1	10.2	SCHEDULED	EUTH	DAY	268
74762-11	NA	-3.7	14.3	SCHEDULED	EUTH	DAY	267
74782-09	NA	5.7	5.0	SCHEDULED	EUTH	DAY	266
74785-08	NA	9.1	8.3	SCHEDULED	EUTH	DAY	269
74790-15	NA	NA	6.4	SCHEDULED	EUTH	DAY	267
74790-14	NA	-13.6	10.2	SCHEDULED	EUTH	DAY	269
74796-15	NA	2.9	0.0	SCHEDULED	EUTH	DAY	267
74797-12	-3.4	7.1	0.9	SCHEDULED	EUTH	DAY	266
74798-13	NA	-3.1	7.1	SCHEDULED	EUTH	DAY	268
74798-12	NA	-8.8	-1.4	SCHEDULED	EUTH	DAY	267
74802-10	NA	NA	3.9	SCHEDULED	EUTH	DAY	267
74809-08	NA	-7.5	0.7	SCHEDULED	EUTH	DAY	269
74816-12	NA	NA	7.5	SCHEDULED	EUTH	DAY	266
74819-10	NA	-10.2	-3.6	SCHEDULED	EUTH	DAY	268
74823-12	NA	-5.1	-0.6	SCHEDULED	EUTH	DAY	266
74824-11	6.3	3.4	0.8	SCHEDULED	EUTH	DAY	268
74835-11	-5.7	6.7	-3.1	SCHEDULED	EUTH	DAY	269
74835-07	NA	3.6	-1.4	SCHEDULED	EUTH	DAY	268
74838-11	NA	11.8	1.4	SCHEDULED	EUTH	DAY	269
74839-18	-2.1	-1.4	2.1	SCHEDULED	EUTH	DAY	266
74846-07	NA	NA	14.3	SCHEDULED	EUTH	DAY	269
74856-15	NA	3.0	1.4	SCHEDULED	EUTH	DAY	266
74859-09	NA	4.3	-3.8	SCHEDULED	EUTH	DAY	267

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 500 PPM

PAGE 20

DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74859-12	NA	-3.7	14.9	SCHEDULED EUTH DAY	267
74861-05	0.8	0.8	-5.4	SCHEDULED EUTH DAY	268
74863-10	8.4	-3.2	6.4	SCHEDULED EUTH DAY	266
74869-04	NA	-16.6	9.7	SCHEDULED EUTH DAY	269
MEAN	0.7	-0.1	3.8		
S.D.	5.59	7.34	5.59		
N	6	26	30		

NA = NOT APPLICABLE

PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 1000 PPM

PAGE 21

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74738-07	NA	4.4	1.9	SCHEDULED	EUTH	DAY	266
74738-12	NA	5.8	6.8	SCHEDULED	EUTH	DAY	266
74739-08	5.7	4.3	0.0	SCHEDULED	EUTH	DAY	267
74743-08	NA	-6.5	7.8	SCHEDULED	EUTH	DAY	266
74744-16	-0.8	7.9	1.7	SCHEDULED	EUTH	DAY	269
74748-11	NA	NA	1.4	SCHEDULED	EUTH	DAY	268
74752-10	NA	5.8	5.5	SCHEDULED	EUTH	DAY	269
74766-13	10.7	2.5	-3.8	SCHEDULED	EUTH	DAY	268
74780-04	NA	NA	3.4	SCHEDULED	EUTH	DAY	266
74791-13	NA	-0.7	2.5	SCHEDULED	EUTH	DAY	267
74793-14	NA	2.3	6.8	SCHEDULED	EUTH	DAY	269
74795-09	-8.2	4.1	-7.1	SCHEDULED	EUTH	DAY	267
74799-14	NA	12.2	5.6	SCHEDULED	EUTH	DAY	268
74801-14	10.0	7.8	3.7	SCHEDULED	EUTH	DAY	266
74806-11	NA	-1.9	4.1	SCHEDULED	EUTH	DAY	268
74820-12	NA	4.2	5.0	SCHEDULED	EUTH	DAY	267
74821-09	NA	3.6	11.3	SCHEDULED	EUTH	DAY	268
74821-07	NA	-10.6	2.1	SCHEDULED	EUTH	DAY	266
74830-11	4.8	0.0	-3.8	SCHEDULED	EUTH	DAY	266
74831-12	NA	-11.3	5.7	SCHEDULED	EUTH	DAY	267
74834-07	NA	-26.6	2.1	SCHEDULED	EUTH	DAY	268
74847-09	NA	-4.3	4.5	SCHEDULED	EUTH	DAY	269
74848-04	NA	2.6	0.8	SCHEDULED	EUTH	DAY	268
74849-07	NA	-2.2	2.5	SCHEDULED	EUTH	DAY	268
74850-11	NA	-23.6	14.3	SCHEDULED	EUTH	DAY	269
74850-14	NA	NA	6.2	SCHEDULED	EUTH	DAY	269

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 1000 PPM

PAGE 22

DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74855-11	NA	4.5	3.6	SCHEDULED EUTH DAY	267
74858-14	6.0	-4.8	8.3	SCHEDULED EUTH DAY	269
74868-20	NA	13.6	0.8	SCHEDULED EUTH DAY	267
74871-09	NA	NA	-1.9	SCHEDULED EUTH DAY	266
MEAN	4.0	-0.3	3.4		
S.D.	6.59	9.47	4.38		
N	7	26	30		

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 2500 PPM

PAGE 23

DAY	246 TO 253	253 TO 260	260 TO 266				
ANIMAL							
74747-17	-0.7	8.3	6.5	SCHEDULED	EUTH	DAY	268
74751-13	NA	5.4	9.3	SCHEDULED	EUTH	DAY	267
74754-15	NA	2.4	0.8	SCHEDULED	EUTH	DAY	267
74755-01	2.1	8.4	-2.7	SCHEDULED	EUTH	DAY	266
74768-11	NA	1.1	6.2	SCHEDULED	EUTH	DAY	268
74769-08	NA	9.1	3.0	SCHEDULED	EUTH	DAY	267
74770-11	NA	-2.0	15.0	SCHEDULED	EUTH	DAY	267
74770-10	NA	8.1	5.2	SCHEDULED	EUTH	DAY	268
74786-10	NA	-8.1	5.2	SCHEDULED	EUTH	DAY	269
74787-10	-3.2	6.8	4.0	SCHEDULED	EUTH	DAY	267
74792-11	3.4	0.0	0.9	SCHEDULED	EUTH	DAY	266
74792-12	NA	3.0	6.3	SCHEDULED	EUTH	DAY	268
74807-08	NA	0.6	5.7	SCHEDULED	EUTH	DAY	266
74811-13	NA	8.3	-4.2	SCHEDULED	EUTH	DAY	267
74813-12	0.9	7.1	3.0	SCHEDULED	EUTH	DAY	269
74817-13	NA	3.2	-5.7	SCHEDULED	EUTH	DAY	266
74822-08	NA	-2.3	-5.6	SCHEDULED	EUTH	DAY	266
74827-11	NA	-0.9	2.9	SCHEDULED	EUTH	DAY	269
74832-07	NA	NA	1.7	SCHEDULED	EUTH	DAY	267
74833-11	NA	9.1	-5.2	SCHEDULED	EUTH	DAY	267
74836-12	NA	17.2	5.1	SCHEDULED	EUTH	DAY	269
74836-11	NA	-1.2	1.4	SCHEDULED	EUTH	DAY	269
74853-11	NA	10.0	4.5	SCHEDULED	EUTH	DAY	269
74853-12	NA	-13.6	6.8	SCHEDULED	EUTH	DAY	269
74857-14	-4.2	5.9	4.0	SCHEDULED	EUTH	DAY	268
74857-09	NA	NA	-7.1	SCHEDULED	EUTH	DAY	266

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 203 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD EFFICIENCY  
(BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)  
FEMALE GROUP: 2500 PPM

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DAY	246 TO 253	253 TO 260	260 TO 266		
-----					
ANIMAL					
74860-08	NA	4.1	0.8	SCHEDULED EUTH DAY	268
74862-13	NA	4.1	-1.5	SCHEDULED EUTH DAY	266
74866-16	NA	7.7	7.1	SCHEDULED EUTH DAY	268
74870-03	NA	NA	10.2	SCHEDULED EUTH DAY	269
MEAN	-0.3	3.8	2.8		
S.D.	2.99	6.18	5.14		
N	6	27	30		

NA = NOT APPLICABLE

PBFTSv4.25  
09/05/2002

**FINAL REPORT**

Volume 8 of 10  
(Individual Tables 204-219)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 204 - 219**

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS									
DAMS FROM GROUP 1:			0 PPM						
74737-10	G		18.	20.	21.	22.	24.	21. DELIVERED	
74740-07	NG		18.	19.	20.	21.	19.	19. FAILED TO DELIVER DAY 56	
74757-11	NG		15.	19.	17.	16.	17.	17. FAILED TO DELIVER DAY 59	
74759-09	G		16.	17.	19.	19.	19.	18. DELIVERED	
74764-10	G		18.	24.	22.	24.	23.	22. DELIVERED	
74767-16	G		20.	26.	26.	23.	26.	24. DELIVERED	
74767-10	G		21.	24.	25.	24.	25.	24. DELIVERED	
74772-09	G		22.	24.	24.	24.	24.	24. DELIVERED	
74773-15	G		19.	20.	22.	24.	23.	22. DELIVERED	
74773-08	G		21.	23.	24.	22.	22.	22. DELIVERED	
74774-15	NG		20.	21.	20.	23.	21.	21. FAILED TO DELIVER DAY 59	
74789-10	G		18.	19.	22.	23.	22.	21. DELIVERED	
74789-09	G		19.	20.	21.	19.	22.	20. DELIVERED	
74804-11	G		20.	21.	20.	22.	24.	22. DELIVERED	
74804-08	G		19.	23.	20.	21.	25.	22. DELIVERED	
74808-13	G		20.	22.	23.	23.	23.	22. DELIVERED	
74808-11	G		19.	19.	21.	20.	20.	20. DELIVERED	
74810-16	G		21.	22.	23.	22.	23.	22. DELIVERED	
74826-11	NG		20.	25.	23.	24.	19.	22. FAILED TO DELIVER DAY 60	
74826-08	G		22.	24.	25.	25.	25.	24. DELIVERED	
74829-11	G		19.	23.	22.	21.	24.	22. DELIVERED	
74840-03	G		20.	23.	25.	24.	25.	23. DELIVERED	
74841-12	G		18.	20.	21.	20.	21.	20. DELIVERED	
74844-05	NG		16.	31.	18.	28.	19.	21. FAILED TO DELIVER DAY 61	
74844-07	G		19.	21.	23.	21.	22.	21. DELIVERED	
74845-07	G		20.	22.	22.	22.	22.	22. DELIVERED	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 204 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

PAGE 2

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS	DAY							
DAMS FROM GROUP 1:			0 PPM					
74854-08	NG		20.	23.	22.	19.	17.	20. FAILED TO DELIVER DAY 60
74864-15	NG		15.	20.	21.	19.	13.	17. FAILED TO DELIVER DAY 55
74867-07	G		28.	31.	26.	31.	27.	28. DELIVERED
MEAN			20.	22.	23.	23.	23.	22.
S.D.			2.3	2.9	2.0	2.5	1.9	2.0
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20	
STATUS									
DAMS FROM GROUP 2:			500 PPM						
74742-18	G		22.	20.	18.	25.	20.	21. DELIVERED	
74746-10	G		21.	23.	22.	24.	23.	23. DELIVERED	
74753-12	G		20.	24.	21.	28.	22.	23. DELIVERED	
74761-12	G		18.	18.	20.	19.	21.	19. DELIVERED	
74762-11	G		17.	20.	21.	15.	22.	19. DELIVERED	
74782-09	G		15.	15.	15.	15.	19.	16. DELIVERED	
74785-08	G		17.	20.	20.	19.	19.	19. DELIVERED	
74790-15	G		17.	19.	20.	20.	21.	20. DELIVERED	
74790-14	G		19.	20.	21.	18.	20.	20. DELIVERED	
74796-15	G		24.	29.	28.	29.	28.	27. DELIVERED	
74797-12	NG		15.	18.	16.	15.	16.	16. FAILED TO DELIVER DAY 53	
74798-13	G		19.	22.	23.	21.	24.	22. DELIVERED	
74798-12	G		20.	23.	23.	22.	26.	23. DELIVERED	
74802-10	G		18.	22.	23.	25.	26.	23. DELIVERED	
74809-08	G		17.	18.	20.	20.	23.	20. DELIVERED	
74816-12	G		22.	21.	22.	23.	24.	22. DELIVERED	
74819-10	G		18.	20.	20.	18.	21.	20. DELIVERED	
74823-12	G		21.	22.	25.	24.	27.	24. DELIVERED	
74835-11	NG		16.	22.	20.	15.	17.	18. FAILED TO DELIVER DAY 58	
74835-07	G		16.	21.	21.	21.	23.	21. DELIVERED	
74838-11	G		22.	24.	22.	22.	26.	23. DELIVERED	
74839-18	NG		22.	23.	25.	19.	17.	21. FAILED TO DELIVER DAY 53	
74846-07	G		17.	21.	20.	20.	21.	20. DELIVERED	
74856-15	G		23.	25.	24.	26.	27.	25. DELIVERED	
74859-09	G		20.	20.	21.	21.	23.	21. DELIVERED	
74859-12	G		19.	22.	21.	26.	23.	22. DELIVERED	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 204 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:			500 PPM					
74861-05	G		19.	19.	19.	22.	21.	20. DELIVERED
74869-04	G		18.	20.	25.	24.	26.	23. DELIVERED
MEAN			19.	21.	21.	22.	23.	21.
S.D.			2.3	2.7	2.5	3.6	2.6	2.3
N			25	25	25	25	25	25

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 3:			1000 PPM							
74738-07	G		18.	19.	20.	21.	20.	19.	DELIVERED	
74738-12	G		20.	22.	22.	22.	24.	22.	DELIVERED	
74739-08	NG		18.	19.	17.	18.	17.	18.	FAILED TO DELIVER DAY 55	
74748-11	G		19.	22.	22.	22.	22.	21.	DELIVERED	
74752-10	G		26.	28.	31.	28.	27.	28.	DELIVERED	
74780-04	G		24.	30.	29.	28.	30.	28.	DELIVERED	
74791-13	G		18.	37.	19.	18.	21.	22.	DELIVERED	
74793-14	G		13.	20.	20.	21.	16.	18.	DELIVERED	
74795-09	NG		18.	21.	21.	18.	20.	20.	FAILED TO DELIVER DAY 58	
74799-14	G		18.	19.	21.	19.	20.	19.	DELIVERED	
74806-11	G		17.	20.	24.	20.	19.	20.	DELIVERED	
74820-12	G		16.	20.	23.	21.	21.	20.	DELIVERED	
74821-09	G		20.	23.	23.	23.	26.	23.	DELIVERED	
74821-07	G		21.	23.	23.	22.	25.	23.	DELIVERED	
74830-11	NG		23.	22.	26.	20.	18.	21.	FAILED TO DELIVER DAY 59	
74831-12	G		19.	22.	23.	23.	25.	23.	DELIVERED	
74834-07	G		20.	22.	25.	22.	26.	23.	DELIVERED	
74847-09	G		17.	21.	24.	21.	22.	21.	DELIVERED	
74848-04	G		18.	21.	21.	22.	23.	21.	DELIVERED	
74849-07	G		20.	25.	24.	26.	23.	23.	DELIVERED	
74850-11	G		17.	6.	21.	20.	23.	18.	DELIVERED	
74850-14	G		16.	19.	19.	17.	20.	18.	DELIVERED	
74855-11	G		19.	23.	23.	24.	24.	22.	DELIVERED	
74858-14	NG		19.	25.	21.	20.	15.	19.	FAILED TO DELIVER DAY 60	
74868-20	G		18.	21.	22.	22.	24.	22.	DELIVERED	
74871-09	G		20.	23.	21.	22.	20.	21.	DELIVERED	
MEAN			19.	22.	23.	22.	23.	22.		
S.D.			2.7	5.5	2.9	2.7	3.1	2.7		
N			22	22	22	22	22	22		

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 204 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/ANIMAL/DAY]

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PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:			2500 PPM					
74751-13	G		15.	21.	21.	21.	23.	20. DELIVERED
74754-15	G		18.	22.	22.	22.	24.	22. DELIVERED
74768-11	G		18.	22.	23.	22.	24.	22. DELIVERED
74769-08	G		14.	19.	19.	20.	21.	19. DELIVERED
74770-11	G		19.	21.	23.	25.	21.	21. DELIVERED
74770-10	G		19.	25.	27.	27.	28.	25. DELIVERED
74786-10	G		20.	21.	24.	20.	23.	22. DELIVERED
74792-12	G		17.	18.	19.	18.	21.	19. DELIVERED
74807-08	G		17.	18.	21.	19.	23.	20. DELIVERED
74811-13	G		18.	18.	21.	20.	23.	20. DELIVERED
74813-12	NG		14.	16.	17.	16.	16.	16. FAILED TO DELIVER DAY 63
74817-13	G		21.	20.	26.	23.	27.	24. DELIVERED
74822-08	G		18.	21.	22.	21.	25.	22. DELIVERED
74827-11	G		16.	17.	18.	20.	20.	18. DELIVERED
74832-07	G		16.	17.	18.	18.	20.	18. DELIVERED
74833-11	G		23.	23.	26.	25.	27.	25. DELIVERED
74836-12	G		19.	19.	22.	23.	24.	21. DELIVERED
74836-11	G		18.	20.	21.	20.	22.	20. DELIVERED
74853-11	G		19.	21.	21.	20.	21.	21. DELIVERED
74853-12	G		20.	22.	23.	22.	22.	22. DELIVERED
74857-09	G		17.	25.	22.	23.	25.	23. DELIVERED
74860-08	G		17.	21.	22.	20.	22.	20. DELIVERED
74862-13	G		19.	20.	20.	19.	19.	19. DELIVERED
74866-16	G		19.	25.	24.	23.	23.	22. DELIVERED
74870-03	G		22.	27.	24.	21.	25.	24. DELIVERED
MEAN			18.	21.	22.	21.	23.	21.
S.D.			2.1	2.6	2.4	2.3	2.3	2.0
N			24	24	24	24	24	24

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGFWv4.0  
 12/09/2002

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS								
DAMS FROM GROUP 1:			0 PPM					
74737-10	G		63.	68.	68.	67.	65.	65. DELIVERED
74740-07	NG		62.	65.	68.	70.	61.	64. FAILED TO DELIVER DAY 56
74757-11	NG		52.	66.	59.	55.	58.	59. FAILED TO DELIVER DAY 59
74759-09	G		65.	65.	69.	66.	59.	64. DELIVERED
74764-10	G		56.	73.	65.	69.	60.	63. DELIVERED
74767-16	G		71.	88.	84.	72.	73.	76. DELIVERED
74767-10	G		69.	75.	74.	67.	64.	70. DELIVERED
74772-09	G		75.	78.	74.	70.	63.	72. DELIVERED
74773-15	G		68.	70.	74.	75.	68.	73. DELIVERED
74773-08	G		71.	74.	73.	64.	58.	66. DELIVERED
74774-15	NG		60.	64.	61.	68.	61.	63. FAILED TO DELIVER DAY 59
74789-10	G		66.	67.	72.	70.	60.	67. DELIVERED
74789-09	G		68.	68.	68.	59.	62.	63. DELIVERED
74804-11	G		71.	71.	65.	69.	70.	71. DELIVERED
74804-08	G		71.	81.	68.	68.	70.	72. DELIVERED
74808-13	G		66.	69.	70.	67.	61.	65. DELIVERED
74808-11	G		70.	66.	70.	64.	57.	65. DELIVERED
74810-16	G		75.	74.	74.	68.	64.	69. DELIVERED
74826-11	NG		70.	84.	75.	77.	62.	73. FAILED TO DELIVER DAY 60
74826-08	G		78.	80.	78.	74.	66.	74. DELIVERED
74829-11	G		65.	74.	69.	62.	62.	66. DELIVERED
74840-03	G		63.	69.	72.	66.	65.	66. DELIVERED
74841-12	G		73.	76.	76.	69.	65.	71. DELIVERED
74844-05	NG		55.	107.	61.	94.	63.	71. FAILED TO DELIVER DAY 61
74844-07	G		73.	76.	78.	69.	64.	70. DELIVERED
74845-07	G		75.	77.	75.	73.	65.	73. DELIVERED

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 205 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PAGE 2

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS	DAY							
DAMS FROM GROUP 1:			0 PPM					
74854-08	NG		72.	79.	73.	63.	57.	69. FAILED TO DELIVER DAY 60
74864-15	NG		60.	78.	78.	69.	48.	65. FAILED TO DELIVER DAY 55
74867-07	G		84.	87.	71.	81.	66.	75. DELIVERED
MEAN			70.	74.	72.	69.	64.	69.
S.D.			5.9	6.3	4.5	4.7	4.0	4.1
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS								
DAMS FROM GROUP 2:			500 PPM					
74742-18	G		102.	88.	76.	100.	70.	85. DELIVERED
74746-10	G		66.	69.	63.	66.	57.	64. DELIVERED
74753-12	G		69.	78.	65.	82.	57.	69. DELIVERED
74761-12	G		75.	72.	77.	70.	69.	71. DELIVERED
74762-11	G		64.	72.	72.	50.	64.	63. DELIVERED
74782-09	G		65.	62.	60.	57.	64.	62. DELIVERED
74785-08	G		64.	73.	70.	63.	58.	65. DELIVERED
74790-15	G		69.	71.	70.	67.	62.	69. DELIVERED
74790-14	G		68.	69.	70.	57.	58.	65. DELIVERED
74796-15	G		68.	80.	73.	73.	64.	69. DELIVERED
74797-12	NG		63.	73.	63.	60.	64.	65. FAILED TO DELIVER DAY 53
74798-13	G		72.	79.	78.	67.	68.	72. DELIVERED
74798-12	G		68.	73.	70.	64.	66.	68. DELIVERED
74802-10	G		63.	74.	75.	78.	72.	73. DELIVERED
74809-08	G		67.	68.	72.	69.	68.	69. DELIVERED
74816-12	G		76.	70.	71.	70.	64.	68. DELIVERED
74819-10	G		64.	70.	67.	58.	59.	64. DELIVERED
74823-12	G		73.	74.	81.	74.	73.	75. DELIVERED
74835-11	NG		78.	99.	85.	66.	77.	82. FAILED TO DELIVER DAY 58
74835-07	G		59.	74.	70.	67.	65.	68. DELIVERED
74838-11	G		81.	84.	74.	71.	72.	74. DELIVERED
74839-18	NG		77.	77.	81.	62.	57.	71. FAILED TO DELIVER DAY 53
74846-07	G		63.	73.	66.	64.	60.	65. DELIVERED
74856-15	G		91.	92.	83.	85.	77.	84. DELIVERED
74859-09	G		73.	70.	70.	66.	63.	67. DELIVERED
74859-12	G		63.	70.	65.	77.	61.	66. DELIVERED

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 205 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL FOOD CONSUMPTION DURING GESTATION [G/KG/DAY]

PAGE 4

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:			500 PPM					
74861-05	G		77.	74.	72.	80.	71.	74. DELIVERED
74869-04	G		61.	65.	78.	70.	67.	68. DELIVERED
MEAN			70.	74.	72.	70.	65.	69.
S.D.			9.6	6.7	5.5	10.3	5.5	5.7
N			25	25	25	25	25	25

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
STATUS								
DAMS FROM GROUP 3:			1000 PPM					
74738-07	G		63.	64.	66.	66.	57.	61. DELIVERED
74738-12	G		71.	75.	73.	69.	68.	71. DELIVERED
74739-08	NG		61.	63.	56.	59.	56.	60. FAILED TO DELIVER DAY 55
74748-11	G		73.	79.	75.	71.	63.	70. DELIVERED
74752-10	G		83.	85.	89.	77.	66.	79. DELIVERED
74780-04	G		78.	91.	82.	75.	72.	78. DELIVERED
74791-13	G		77.	151.	74.	67.	70.	84. DELIVERED
74793-14	G		49.	73.	69.	69.	48.	61. DELIVERED
74795-09	NG		60.	70.	68.	58.	64.	65. FAILED TO DELIVER DAY 58
74799-14	G		73.	75.	79.	67.	63.	69. DELIVERED
74806-11	G		62.	70.	79.	63.	54.	65. DELIVERED
74820-12	G		63.	73.	79.	68.	61.	67. DELIVERED
74821-09	G		68.	74.	71.	68.	69.	69. DELIVERED
74821-07	G		77.	80.	76.	69.	68.	73. DELIVERED
74830-11	NG		81.	73.	84.	64.	59.	70. FAILED TO DELIVER DAY 59
74831-12	G		66.	72.	72.	69.	66.	70. DELIVERED
74834-07	G		78.	80.	87.	73.	78.	78. DELIVERED
74847-09	G		56.	65.	71.	60.	57.	61. DELIVERED
74848-04	G		60.	67.	64.	64.	58.	61. DELIVERED
74849-07	G		78.	91.	82.	83.	65.	76. DELIVERED
74850-11	G		68.	25.	85.	74.	74.	67. DELIVERED
74850-14	G		59.	68.	65.	58.	64.	61. DELIVERED
74855-11	G		67.	79.	75.	74.	65.	69. DELIVERED
74858-14	NG		64.	80.	65.	62.	48.	61. FAILED TO DELIVER DAY 60
74868-20	G		68.	75.	74.	70.	69.	73. DELIVERED
74871-09	G		68.	74.	66.	66.	54.	64. DELIVERED
MEAN			68.	77.	75.	69.	64.	69.
S.D.			8.4	21.0	7.1	5.6	7.2	6.7
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 4:			2500 PPM					
74751-13	G		54.	72.	68.	65.	64.	63. DELIVERED
74754-15	G		64.	75.	72.	68.	65.	69. DELIVERED
74768-11	G		58.	69.	69.	63.	61.	63. DELIVERED
74769-08	G		52.	68.	64.	65.	61.	63. DELIVERED
74770-11	G		63.	66.	69.	71.	54.	62. DELIVERED
74770-10	G		57.	71.	73.	69.	63.	65. DELIVERED
74786-10	G		73.	73.	78.	61.	61.	69. DELIVERED
74792-12	G		63.	64.	65.	59.	60.	63. DELIVERED
74807-08	G		61.	63.	69.	59.	63.	63. DELIVERED
74811-13	G		66.	64.	71.	64.	65.	65. DELIVERED
74813-12	NG		58.	66.	69.	63.	63.	65. FAILED TO DELIVER DAY 63
74817-13	G		64.	61.	76.	61.	63.	65. DELIVERED
74822-08	G		65.	72.	71.	64.	66.	69. DELIVERED
74827-11	G		66.	68.	68.	71.	63.	65. DELIVERED
74832-07	G		65.	66.	67.	64.	62.	65. DELIVERED
74833-11	G		83.	78.	84.	76.	74.	78. DELIVERED
74836-12	G		55.	54.	61.	61.	56.	56. DELIVERED
74836-11	G		56.	60.	61.	56.	55.	56. DELIVERED
74853-11	G		67.	71.	68.	62.	58.	66. DELIVERED
74853-12	G		65.	68.	68.	62.	59.	65. DELIVERED
74857-09	G		58.	82.	69.	69.	67.	70. DELIVERED
74860-08	G		57.	68.	67.	59.	59.	60. DELIVERED
74862-13	G		69.	68.	65.	60.	55.	61. DELIVERED
74866-16	G		59.	76.	70.	64.	59.	62. DELIVERED
74870-03	G		61.	70.	60.	51.	56.	60. DELIVERED
MEAN			63.	69.	69.	64.	61.	64.
S.D.			6.7	6.1	5.4	5.4	4.6	4.6
N			24	24	24	24	24	24

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 1:			0 PPM							
74737-10	G		18.1	10.2	27.4	16.9	52.0	30.1	DELIVERED	
74740-07	NG		1.4	-1.8	7.5	14.1	8.7	6.5	FAILED TO DELIVER DAY 56	
74757-11	NG		11.8	-12.3	11.6	6.4	3.9	4.5	FAILED TO DELIVER DAY 59	
74759-09	G		27.4	15.4	30.6	5.3	57.0	32.3	DELIVERED	
74764-10	G		12.9	7.0	20.2	0.0	52.4	23.9	DELIVERED	
74767-16	G		25.0	9.1	20.2	2.9	41.2	23.6	DELIVERED	
74767-10	G		19.0	18.1	22.0	22.2	33.6	24.6	DELIVERED	
74772-09	G		24.4	13.7	28.1	16.7	41.3	27.5	DELIVERED	
74773-15	G		30.6	-19.7	39.8	12.7	19.8	19.0	DELIVERED	
74773-08	G		16.7	24.6	22.3	9.1	52.0	28.4	DELIVERED	
74774-15	NG		3.8	-25.8	22.7	0.0	10.2	4.3	FAILED TO DELIVER DAY 59	
74789-10	G		2.8	43.2	20.9	35.2	44.1	30.6	DELIVERED	
74789-09	G		22.6	13.5	31.0	-8.9	57.5	30.1	DELIVERED	
74804-11	G		20.9	20.3	12.5	16.7	29.8	21.5	DELIVERED	
74804-08	G		28.5	14.7	16.3	19.0	57.8	32.6	DELIVERED	
74808-13	G		30.8	10.5	15.0	20.6	40.9	26.1	DELIVERED	
74808-11	G		32.4	17.3	15.5	19.7	52.5	30.8	DELIVERED	
74810-16	G		31.7	10.5	18.9	18.4	42.4	27.3	DELIVERED	
74826-11	NG		19.7	9.4	9.8	-1.4	-3.5	6.2	FAILED TO DELIVER DAY 60	
74826-08	G		27.3	19.2	24.5	16.2	45.6	29.5	DELIVERED	
74829-11	G		37.6	11.7	13.8	30.6	53.0	33.0	DELIVERED	
74840-03	G		30.8	10.0	25.5	5.6	29.6	22.2	DELIVERED	
74841-12	G		29.5	11.8	24.0	16.4	48.8	29.6	DELIVERED	
74844-05	NG		-9.7	6.5	1.4	9.6	2.6	2.8	FAILED TO DELIVER DAY 61	
74844-07	G		26.6	22.5	17.8	14.5	50.1	29.7	DELIVERED	
74845-07	G		22.5	21.5	6.7	15.4	45.6	25.1	DELIVERED	

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 2

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 1:			0 PPM					
74854-08	NG		20.5	16.2	11.2	-19.6	1.0	6.9 FAILED TO DELIVER DAY 60
74864-15	NG		19.6	13.5	14.4	8.9	-18.8	6.5 FAILED TO DELIVER DAY 55
74867-07	G		28.2	15.2	9.5	21.3	22.5	19.8 DELIVERED
MEAN			24.8	14.6	21.0	14.8	44.1	27.2
S.D.			7.66	10.82	7.70	9.76	11.02	4.17
N			22	22	22	22	22	22

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 2:			500 PPM							
74742-18	G		17.4	13.1	17.8	17.3	50.3	26.4	DELIVERED	
74746-10	G		15.6	18.8	19.3	15.3	55.1	28.9	DELIVERED	
74753-12	G		34.5	9.6	22.0	22.9	56.3	32.5	DELIVERED	
74761-12	G		20.0	13.2	17.5	15.8	42.9	25.4	DELIVERED	
74762-11	G		17.3	13.5	20.2	18.1	55.6	30.5	DELIVERED	
74782-09	G		19.0	17.4	22.9	15.9	53.5	31.3	DELIVERED	
74785-08	G		20.2	10.2	21.3	17.3	45.0	25.7	DELIVERED	
74790-15	G		32.4	22.5	33.8	0.0	59.7	35.2	DELIVERED	
74790-14	G		8.1	16.7	20.2	12.8	44.3	23.7	DELIVERED	
74796-15	G		21.3	-1.1	32.7	1.1	42.0	23.1	DELIVERED	
74797-12	NG		-3.4	27.3	-6.5	6.8	-5.1	2.2	FAILED TO DELIVER DAY 53	
74798-13	G		23.3	16.7	24.4	18.8	48.2	29.9	DELIVERED	
74798-12	G		35.9	17.2	16.7	25.4	48.4	32.0	DELIVERED	
74802-10	G		21.9	12.0	17.5	12.1	45.2	25.9	DELIVERED	
74809-08	G		19.1	15.1	16.0	30.5	52.1	30.9	DELIVERED	
74816-12	G		18.3	6.3	22.9	20.6	55.6	29.7	DELIVERED	
74819-10	G		8.6	10.0	22.5	16.9	63.7	30.8	DELIVERED	
74823-12	G		14.6	9.1	13.1	26.7	43.4	24.9	DELIVERED	
74835-11	NG		39.1	16.4	13.5	-52.2	6.9	8.7	FAILED TO DELIVER DAY 58	
74835-07	G		23.0	22.5	20.0	12.9	52.9	30.7	DELIVERED	
74838-11	G		21.3	16.9	12.6	22.4	57.7	31.2	DELIVERED	
74839-18	NG		16.3	17.2	11.0	-32.8	-1.0	4.1	FAILED TO DELIVER DAY 53	
74846-07	G		29.8	27.4	18.9	8.3	51.9	31.1	DELIVERED	
74856-15	G		23.6	19.8	17.7	19.0	47.2	28.7	DELIVERED	
74859-09	G		28.2	10.0	24.4	22.2	57.0	33.3	DELIVERED	
74859-12	G		18.6	16.4	15.5	19.5	43.0	25.3	DELIVERED	

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 4

PREGNANCY STATUS		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20
DAMS FROM GROUP 2:			500 PPM					
74861-05	G		24.3	3.5	18.4	12.3	26.6	18.8 DELIVERED
74869-04	G		25.0	1.6	29.2	23.9	48.7	30.7 DELIVERED
MEAN			21.7	13.5	20.7	17.1	49.9	28.7
S.D.			6.88	6.69	5.28	7.12	7.63	3.79
N			25	25	25	25	25	25

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 5

PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
-----										
DAMS FROM GROUP 3:			1000 PPM							
-----										
74738-07	G		20.0	3.6	20.5	20.6	38.1	23.3	DELIVERED	
74738-12	G		20.5	10.6	18.2	16.7	42.6	25.0	DELIVERED	
74739-08	NG		11.1	17.8	-11.8	11.1	-4.8	3.1	FAILED TO DELIVER DAY 55	
74748-11	G		31.1	17.9	21.6	13.6	55.3	31.7	DELIVERED	
74752-10	G		23.8	8.3	20.3	13.0	47.8	25.9	DELIVERED	
74780-04	G		26.0	20.2	22.6	14.1	43.9	28.3	DELIVERED	
74791-13	G		21.9	6.3	20.3	14.6	45.5	23.3	DELIVERED	
74793-14	G		0.0	20.3	22.2	20.6	43.2	24.3	DELIVERED	
74795-09	NG		-4.1	17.7	3.6	5.6	-1.7	3.1	FAILED TO DELIVER DAY 58	
74799-14	G		21.1	10.5	21.6	20.7	54.1	29.6	DELIVERED	
74806-11	G		15.2	20.3	21.3	8.2	57.0	28.5	DELIVERED	
74820-12	G		32.8	21.7	25.2	17.7	49.3	32.3	DELIVERED	
74821-09	G		20.0	22.0	11.1	22.9	42.9	26.7	DELIVERED	
74821-07	G		24.6	14.7	19.7	18.2	58.7	32.3	DELIVERED	
74830-11	NG		28.5	6.0	16.2	-23.3	3.8	8.6	FAILED TO DELIVER DAY 59	
74831-12	G		24.6	20.9	18.5	11.6	53.6	30.5	DELIVERED	
74834-07	G		33.8	13.6	19.2	9.2	37.5	25.6	DELIVERED	
74847-09	G		32.7	15.6	25.0	0.0	49.9	28.8	DELIVERED	
74848-04	G		17.8	22.2	18.0	17.9	66.8	34.4	DELIVERED	
74849-07	G		20.5	25.3	18.5	24.6	44.1	28.4	DELIVERED	
74850-11	G		28.9	-227.8	66.9	-25.4	71.9	32.2	DELIVERED	
74850-14	G		16.9	8.8	24.6	-27.9	42.3	19.3	DELIVERED	
74855-11	G		5.3	20.6	21.1	22.2	47.9	27.1	DELIVERED	
74858-14	NG		27.0	10.7	16.4	-28.8	2.2	7.0	FAILED TO DELIVER DAY 60	
74868-20	G		30.6	20.6	23.5	14.9	44.1	29.7	DELIVERED	
74871-09	G		12.6	29.4	-4.7	43.3	42.9	25.5	DELIVERED	
MEAN			21.9	5.7	21.6	13.2	49.1	27.9		
S.D.			8.62	52.57	11.85	15.21	8.79	3.67		
N			22	22	22	22	22	22		

G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 206 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING GESTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

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PREGNANCY		DAY	0- 4	4- 7	7-11	11-14	14-20	0-20		
STATUS										
DAMS FROM GROUP 4:			2500 PPM							
74751-13	G		20.0	22.2	20.2	21.9	48.9	30.3	DELIVERED	
74754-15	G		30.0	9.0	24.7	18.4	57.0	32.7	DELIVERED	
74768-11	G		12.5	10.8	22.2	16.4	56.2	29.3	DELIVERED	
74769-08	G		25.0	19.6	23.3	13.1	56.9	32.4	DELIVERED	
74770-11	G		19.7	15.9	24.4	20.2	44.9	27.6	DELIVERED	
74770-10	G		37.6	10.7	25.2	19.5	53.6	33.3	DELIVERED	
74786-10	G		21.8	20.3	27.8	15.0	70.4	37.4	DELIVERED	
74792-12	G		25.8	14.8	19.7	25.5	56.3	33.2	DELIVERED	
74807-08	G		19.7	13.0	29.3	23.2	56.3	33.8	DELIVERED	
74811-13	G		16.7	11.1	24.0	26.7	50.4	30.2	DELIVERED	
74813-12	NG		1.9	-2.1	13.2	10.4	-5.1	2.8	FAILED TO DELIVER DAY 63	
74817-13	G		23.2	-37.8	55.9	13.2	59.4	33.4	DELIVERED	
74822-08	G		34.3	17.2	30.2	19.0	54.9	35.9	DELIVERED	
74827-11	G		17.7	8.0	26.7	28.8	48.8	30.1	DELIVERED	
74832-07	G		24.2	15.4	13.7	25.9	56.7	31.9	DELIVERED	
74833-11	G		21.9	17.6	20.2	15.8	41.7	26.5	DELIVERED	
74836-12	G		5.3	8.8	23.3	26.4	54.6	29.1	DELIVERED	
74836-11	G		19.7	10.2	28.8	1.7	60.8	31.0	DELIVERED	
74853-11	G		23.7	17.2	20.2	18.1	54.0	30.3	DELIVERED	
74853-12	G		28.3	9.2	25.6	16.4	13.5	18.6	DELIVERED	
74857-09	G		25.0	10.8	16.8	28.6	37.0	25.7	DELIVERED	
74860-08	G		25.3	14.1	26.4	5.0	46.1	27.5	DELIVERED	
74862-13	G		29.7	22.0	17.7	15.8	33.9	25.3	DELIVERED	
74866-16	G		18.9	5.4	23.4	8.8	45.3	24.2	DELIVERED	
74870-03	G		30.2	21.2	15.8	3.2	53.1	29.4	DELIVERED	
MEAN			23.2	11.9	24.4	17.8	50.4	30.0		
S.D.			6.88	11.64	7.99	7.67	11.14	4.09		
N			24	24	24	24	24	24		

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G = GRAVID NG = NONGRAVID - WEIGHT(S) NOT INCLUDED IN CALCULATION OF MEAN

PGFWv4.0  
 12/09/2002

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 1:	0 PPM				
-----					
74737-10	32.	39.	51.	57.	49.
74759-09	36.	37.	50.	55.	48.
74764-10	31.	30.	45.	60.	46.
74767-16	37.	35.	45.	52.	45.
74767-10	32.	33.	46.	63.	48.
74772-09	40.	40.	51.	53.	48.
74773-15	23.	31.	38.	46.	37.
74773-08	37.	42.	55.	66.	54.
74789-10	27.	31.	49.	56.	46.
74789-09	30.	31.	44.	57.	44.
74804-11	19.	26.	32.	53.	36.
74804-08	40.	41.	54.	59.	52.
74808-13	34.	40.	38.	54.	44.
74808-11	36.	38.	48.	58.	48.
74810-16	35.	41.	54.	67.	54.
74826-08	37.	43.	57.	61.	53.
74829-11	41.	39.	48.	62.	51.
74840-03	31.	36.	45.	63.	48.
74841-12	34.	41.	50.	52.	47.
74844-07	32.	33.	47.	54.	45.
74845-07	29.	38.	50.	61.	49.
74867-07	26.	36.	59.	63.	52.
MEAN	33.	36.	48.	58.	47.
S.D.	5.6	4.6	6.4	5.2	4.7
N	22	22	22	22	22

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 2:	500 PPM				
-----					
74742-18	38.	35.	38.	45.	40.
74746-10	32.	32.	40.	49.	41.
74753-12	70.	31.	48.	57.	52.
74761-12	21.	27.	40.	50.	39.
74762-11	24.	27.	40.	50.	39.
74782-09	23.	21.	32.	35.	30.
74785-08	25.	30.	43.	45.	39.
74790-15	39.	37.	50.	57.	49.
74790-14	32.	34.	49.	49.	44.
74796-15	31.	32.	47.	55.	45.
74798-13	35.	37.	48.	53.	46.
74798-12	35.	41.	53.	54.	49.
74802-10	37.	39.	49.	52.	47.
74809-08	34.	32.	46.	57.	46.
74816-12	35.	34.	45.	51.	44.
74819-10	32.	39.	50.	61.	50.
74823-12	40.	38.	51.	63.	52.
74835-07	29.	33.	43.	52.	43.
74838-11	75.	51.	51.	62.	58.
74846-07	34.	30.	48.	58.	47.
74856-15	33.	36.	49.	61.	49.
74859-09	35.	31.	44.	53.	44.
74859-12	38.	39.	49.	56.	48.
74861-05	38.	22.	26.	NA	NA
74869-04	21.	32.	46.	56.	44.
MEAN	35.	34.	45.	53.	45.
S.D.	12.5	6.2	6.3	6.3	5.7
N	25	25	25	24	24
NA = NOT APPLICABLE					

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TOTAL LITTER LOSS DAY 14

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 3:	1000 PPM				
-----					
74738-07	31.	35.	48.	52.	45.
74738-12	29.	34.	42.	49.	42.
74743-08	28.	32.	50.	60.	48.
74748-11	26.	33.	40.	47.	39.
74752-10	36.	34.	40.	56.	44.
74780-04	34.	36.	53.	60.	50.
74791-13	31.	30.	45.	50.	42.
74793-14	38.	35.	49.	56.	48.
74799-14	27.	29.	40.	44.	38.
74806-11	36.	34.	47.	NA	NA
74820-12	52.	45.	42.	52.	48.
74821-09	39.	35.	44.	54.	46.
74821-07	43.	41.	50.	59.	51.
74831-12	25.	27.	46.	47.	40.
74834-07	20.	30.	44.	52.	41.
74847-09	36.	36.	48.	59.	48.
74848-04	37.	39.	54.	55.	50.
74849-07	28.	37.	45.	46.	42.
74850-11	30.	32.	42.	49.	41.
74850-14	32.	39.	50.	55.	48.
74855-11	33.	30.	41.	56.	44.
74868-20	24.	29.	40.	50.	39.
74871-09	35.	36.	41.	55.	44.
MEAN	33.	34.	45.	53.	44.
S.D.	6.9	4.3	4.4	4.7	4.0
N	23	23	23	22	22
NA = NOT APPLICABLE					

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TABLE 207 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD CONSUMPTION DURING LACTATION [G/ANIMAL/DAY]

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 4:	2500 PPM				
-----					
74751-13	34.	34.	43.	46.	42.
74754-15	41.	40.	52.	55.	50.
74768-11	41.	35.	43.	48.	43.
74769-08	24.	32.	44.	59.	45.
74770-11	38.	42.	54.	62.	53.
74770-10	43.	42.	59.	66.	57.
74786-10	42.	40.	50.	52.	48.
74792-12	33.	34.	42.	50.	42.
74807-08	35.	32.	40.	42.	39.
74811-13	35.	36.	45.	50.	44.
74817-13	45.	41.	49.	52.	48.
74822-08	36.	39.	50.	56.	48.
74827-11	35.	32.	41.	44.	40.
74832-07	30.	31.	38.	44.	38.
74833-11	42.	35.	52.	58.	50.
74836-12	25.	35.	50.	58.	47.
74836-11	36.	41.	49.	53.	47.
74853-11	42.	39.	41.	46.	43.
74853-12	28.	33.	44.	50.	42.
74857-09	38.	36.	46.	60.	48.
74860-08	29.	36.	45.	51.	43.
74862-13	36.	38.	54.	62.	52.
74866-16	29.	31.	43.	54.	43.
74870-03	38.	41.	48.	58.	49.
MEAN	36.	36.	47.	53.	46.
S.D.	5.8	3.7	5.2	6.4	4.7
N	24	24	24	24	24

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 1:	0 PPM				
-----					
74737-10	105.	121.	148.	164.	150.
74759-09	129.	126.	161.	179.	163.
74764-10	98.	93.	135.	178.	141.
74767-16	125.	119.	147.	170.	150.
74767-10	93.	95.	130.	173.	136.
74772-09	120.	113.	137.	138.	134.
74773-15	77.	102.	117.	136.	117.
74773-08	118.	131.	162.	190.	164.
74789-10	93.	103.	150.	163.	146.
74789-09	104.	105.	142.	176.	145.
74804-11	64.	88.	105.	165.	117.
74804-08	139.	136.	166.	173.	166.
74808-13	106.	118.	108.	151.	129.
74808-11	118.	116.	143.	173.	149.
74810-16	113.	129.	162.	198.	167.
74826-08	116.	125.	153.	163.	152.
74829-11	129.	116.	135.	170.	150.
74840-03	89.	97.	119.	168.	131.
74841-12	119.	134.	156.	163.	155.
74844-07	108.	108.	145.	163.	144.
74845-07	102.	129.	156.	186.	160.
74867-07	71.	95.	151.	163.	138.
MEAN	106.	114.	142.	168.	146.
S.D.	19.3	14.6	17.5	14.5	14.4
N	22	22	22	22	22

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 2:	500 PPM				
-----					
74742-18	154.	136.	142.	165.	154.
74746-10	95.	93.	112.	137.	118.
74753-12	224.	95.	139.	157.	154.
74761-12	85.	107.	150.	177.	148.
74762-11	83.	92.	132.	163.	131.
74782-09	97.	89.	132.	135.	122.
74785-08	91.	106.	143.	148.	134.
74790-15	134.	123.	156.	171.	158.
74790-14	106.	110.	148.	145.	138.
74796-15	85.	86.	124.	141.	120.
74798-13	117.	119.	146.	163.	146.
74798-12	104.	120.	146.	147.	140.
74802-10	124.	128.	154.	161.	152.
74809-08	118.	108.	147.	170.	149.
74816-12	111.	105.	133.	150.	135.
74819-10	106.	123.	148.	178.	155.
74823-12	131.	123.	155.	188.	164.
74835-07	99.	110.	137.	160.	141.
74838-11	247.	165.	161.	194.	186.
74846-07	116.	99.	150.	172.	150.
74856-15	110.	115.	149.	181.	155.
74859-09	114.	98.	133.	150.	135.
74859-12	114.	114.	137.	154.	138.
74861-05	142.	80.	91.	NA	NA
74869-04	70.	107.	144.	167.	139.
MEAN	119.	110.	140.	161.	144.
S.D.	40.1	18.1	14.9	15.7	15.1
N	25	25	25	24	24
NA = NOT APPLICABLE					

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TOTAL LITTER LOSS DAY 14

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 3:	1000 PPM				
-----					
74738-07	107.	113.	150.	156.	144.
74738-12	95.	110.	131.	150.	133.
74743-08	89.	101.	151.	173.	146.
74748-11	91.	114.	136.	153.	132.
74752-10	106.	99.	116.	164.	129.
74780-04	96.	98.	135.	149.	132.
74791-13	120.	115.	160.	166.	152.
74793-14	125.	113.	153.	168.	152.
74799-14	99.	105.	137.	147.	134.
74806-11	124.	116.	151.	NA	NA
74820-12	178.	152.	136.	165.	159.
74821-09	117.	102.	126.	154.	135.
74821-07	138.	127.	152.	178.	158.
74831-12	85.	92.	152.	151.	133.
74834-07	69.	103.	141.	160.	134.
74847-09	106.	103.	133.	163.	137.
74848-04	117.	116.	153.	148.	146.
74849-07	98.	123.	142.	143.	138.
74850-11	108.	113.	143.	163.	142.
74850-14	113.	132.	160.	170.	158.
74855-11	104.	95.	129.	165.	136.
74868-20	82.	99.	128.	150.	127.
74871-09	113.	109.	117.	152.	131.
MEAN	108.	111.	141.	159.	140.
S.D.	21.9	13.5	12.7	9.5	10.0
N	23	23	23	22	22
NA = NOT APPLICABLE					

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	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 4:	2500 PPM				
-----					
74751-13	110.	108.	131.	140.	132.
74754-15	134.	123.	151.	162.	154.
74768-11	117.	99.	118.	130.	120.
74769-08	82.	107.	138.	176.	145.
74770-11	117.	124.	148.	161.	150.
74770-10	110.	106.	147.	166.	145.
74786-10	143.	132.	156.	157.	155.
74792-12	110.	110.	133.	159.	137.
74807-08	114.	100.	129.	136.	126.
74811-13	115.	113.	140.	155.	140.
74817-13	120.	106.	121.	128.	123.
74822-08	113.	117.	143.	160.	144.
74827-11	126.	110.	135.	141.	136.
74832-07	110.	112.	135.	151.	136.
74833-11	133.	105.	148.	164.	149.
74836-12	74.	103.	138.	155.	133.
74836-11	104.	117.	134.	144.	132.
74853-11	136.	122.	127.	143.	136.
74853-12	83.	95.	123.	139.	120.
74857-09	116.	105.	129.	162.	138.
74860-08	91.	108.	129.	144.	127.
74862-13	116.	118.	160.	179.	159.
74866-16	87.	91.	123.	152.	125.
74870-03	103.	106.	122.	147.	128.
MEAN	111.	110.	136.	152.	137.
S.D.	17.7	9.6	11.5	13.3	11.2
N	24	24	24	24	24

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 209 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 1

	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 1:	0 PPM				
-----					
74737-10	19.6	14.4	8.3	-6.5	4.1
74759-09	13.0	11.7	6.8	-8.3	2.0
74764-10	8.5	3.3	5.4	-1.7	2.3
74767-16	-4.5	0.0	7.4	-6.1	-0.4
74767-10	11.5	-9.1	8.4	-1.4	2.4
74772-09	28.5	6.7	6.7	0.5	7.0
74773-15	5.9	10.9	11.7	-2.5	4.9
74773-08	7.2	4.8	8.1	-3.4	2.7
74789-10	16.2	10.8	10.8	-0.5	6.4
74789-09	16.7	-2.1	10.4	-1.8	4.3
74804-11	-17.8	6.5	7.1	3.8	3.4
74804-08	10.9	13.0	8.1	0.2	5.9
74808-13	23.3	10.1	4.1	0.0	5.4
74808-11	29.6	9.6	1.2	-1.2	4.3
74810-16	8.5	7.4	5.3	-2.3	2.5
74826-08	18.9	22.3	7.7	-6.8	4.9
74829-11	20.3	10.3	7.4	-1.6	5.4
74840-03	17.2	23.0	-2.2	-0.2	3.5
74841-12	36.9	4.9	6.0	-6.4	4.5
74844-07	17.9	6.1	9.4	-5.0	3.9
74845-07	-10.2	25.2	6.6	-1.4	3.8
74867-07	24.4	4.6	6.0	-7.7	1.4
MEAN	13.8	8.8	6.9	-2.7	3.8
S.D.	12.78	7.98	3.04	3.14	1.75
N	22	22	22	22	22

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TABLE 209 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 2:	500 PPM				
-----					
74742-18	8.8	12.4	1.9	1.6	4.1
74746-10	10.5	6.2	6.4	-4.4	2.3
74753-12	6.6	9.6	10.1	0.5	5.7
74761-12	4.8	9.8	7.2	2.6	5.2
74762-11	11.0	7.4	3.9	-1.4	2.5
74782-09	0.0	-3.2	6.6	7.7	5.3
74785-08	4.0	19.1	5.6	-2.9	3.6
74790-15	14.4	5.4	9.2	-1.5	5.0
74790-14	12.4	3.0	11.3	-6.5	3.6
74796-15	17.2	-5.2	6.1	0.5	3.7
74798-13	7.6	15.2	5.1	-6.5	2.0
74798-12	7.6	4.0	8.9	-5.5	2.6
74802-10	9.8	1.7	6.7	-3.8	2.3
74809-08	20.4	-2.1	10.8	2.8	7.0
74816-12	17.0	-1.0	10.1	-8.4	2.1
74819-10	17.7	13.6	6.8	-3.5	4.2
74823-12	-2.5	9.6	8.1	-3.9	1.9
74835-07	17.1	-1.0	8.9	-1.1	4.3
74838-11	6.2	-2.6	5.0	-2.6	1.5
74846-07	17.6	2.2	9.1	1.0	5.9
74856-15	19.2	7.5	7.3	-1.9	4.5
74859-09	19.0	-5.4	12.5	1.6	6.8
74859-12	9.6	9.5	5.6	-1.5	3.6
74861-05	0.9	24.2	4.3	NA	NA TOTAL LITTER LOSS DAY 14
74869-04	-25.8	16.8	6.8	2.6	3.7
MEAN	9.2	6.3	7.4	-1.4	3.9
S.D.	9.74	7.86	2.52	3.68	1.57
N	25	25	25	24	24

NA = NOT APPLICABLE

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TABLE 209 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

---

	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 3:	1000 PPM				
-----					
74738-07	34.1	5.8	4.2	3.8	7.3
74738-12	3.4	6.8	4.4	0.6	3.0
74743-08	7.1	-5.2	10.2	-1.9	3.0
74748-11	2.6	6.1	1.4	5.8	3.9
74752-10	5.6	1.9	-0.7	-1.5	0.0
74780-04	14.7	9.3	10.5	-4.0	4.7
74791-13	3.3	4.4	12.1	0.6	5.5
74793-14	11.5	-2.9	7.6	0.3	3.9
74799-14	7.4	0.0	11.2	-5.6	2.7
74806-11	4.6	1.0	10.7	NA	NA
74820-12	3.2	2.2	7.1	-1.9	2.3
74821-09	12.1	0.9	4.5	-2.9	2.0
74821-07	14.7	4.9	1.4	-0.7	2.7
74831-12	-5.4	3.7	5.6	0.0	2.1
74834-07	-21.7	16.5	9.1	-0.3	3.5
74847-09	23.9	-3.7	7.2	-5.5	2.4
74848-04	27.2	5.2	7.9	1.5	7.3
74849-07	18.8	9.0	6.6	-3.4	4.3
74850-11	-2.2	9.3	4.5	0.9	2.8
74850-14	9.3	12.0	6.0	-0.3	4.5
74855-11	9.0	-10.1	4.5	7.4	4.8
74868-20	-4.2	1.2	13.8	0.9	5.1
74871-09	28.8	9.2	11.2	-3.4	6.7
MEAN	9.0	3.8	7.0	-0.4	3.8
S.D.	12.39	5.98	3.74	3.26	1.82
N	23	23	23	22	22

NA = NOT APPLICABLE

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 209 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL FOOD EFFICIENCY DURING LACTATION  
 (BODY WEIGHT GAINED AS PER CENT OF FEED CONSUMED)

PAGE 4

	DAY 1- 4	4- 7	7-14	14-21	1-21
-----					
DAMS FROM GROUP 4:	2500 PPM				
-----					
74751-13	5.9	7.8	4.6	-3.1	2.2
74754-15	13.7	18.5	5.5	-8.0	2.8
74768-11	3.2	1.9	7.0	-4.1	1.5
74769-08	9.6	11.6	8.1	2.7	6.1
74770-11	12.2	11.0	9.5	1.2	6.5
74770-10	13.2	-4.7	4.1	-5.2	0.4
74786-10	13.5	4.2	7.7	-1.4	4.6
74792-12	25.0	-6.9	5.8	-4.9	2.1
74807-08	24.6	-3.1	-5.0	4.1	2.7
74811-13	22.1	4.6	-0.3	1.1	3.5
74817-13	11.1	9.8	6.1	-4.1	3.4
74822-08	20.2	5.1	8.0	-7.7	2.7
74827-11	22.7	5.2	6.9	-1.6	5.5
74832-07	26.7	-12.9	6.7	1.0	4.4
74833-11	20.6	7.6	8.0	-6.4	3.7
74836-12	-5.4	6.7	10.6	-3.0	3.0
74836-11	-2.8	9.8	5.5	-3.8	1.5
74853-11	5.6	13.6	-2.8	1.9	2.5
74853-12	18.1	0.0	7.2	-4.0	2.8
74857-09	15.9	12.1	5.0	2.6	6.0
74860-08	18.2	11.2	4.7	-0.3	4.8
74862-13	15.7	2.6	7.6	-2.3	3.8
74866-16	16.1	-2.2	6.4	-2.1	2.7
74870-03	8.8	16.9	-0.9	0.7	3.1
MEAN	13.9	5.4	5.3	-1.9	3.4
S.D.	8.43	7.63	3.82	3.36	1.55
N	24	24	24	24	24

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 210 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL GESTATION LENGTHS [DAYS]

PAGE 1

0 PPM		500 PPM		1000 PPM		2500 PPM	
ANIMAL	GESTATION LENGTH						
74737-10	22.	74742-18	22.	74738-07	22.	74751-13	22.
74759-09	23.	74746-10	22.	74738-12	22.	74754-15	22.
74764-10	22.	74753-12	23.	74748-11	22.	74768-11	22.
74767-16	22.	74761-12	22.	74752-10	22.	74769-08	22.
74767-10	22.	74762-11	22.	74780-04	21.	74770-11	22.
74772-09	22.	74782-09	22.	74791-13	22.	74770-10	22.
74773-15	21.	74785-08	22.	74793-14	22.	74786-10	21.
74773-08	22.	74790-15	22.	74799-14	21.	74792-12	22.
74789-10	22.	74790-14	22.	74806-11	22.	74807-08	22.
74789-09	22.	74796-15	21.	74820-12	22.	74811-13	21.
74804-11	22.	74798-13	22.	74821-09	22.	74817-13	22.
74804-08	22.	74798-12	22.	74821-07	22.	74822-08	22.
74808-13	22.	74802-10	22.	74831-12	21.	74827-11	22.
74808-11	22.	74809-08	22.	74834-07	22.	74832-07	22.
74810-16	22.	74816-12	22.	74847-09	22.	74833-11	22.
74826-08	22.	74819-10	22.	74848-04	22.	74836-12	20.NA
74829-11	22.	74823-12	22.	74849-07	21.	74836-11	22.
74840-03	23.	74835-07	22.	74850-11	22.	74853-11	22.
74841-12	22.	74838-11	22.	74850-14	23.	74853-12	22.
74844-07	22.	74846-07	22.	74855-11	22.	74857-09	22.
74845-07	22.	74856-15	21.	74868-20	22.	74860-08	21.
74867-07	22.	74859-09	22.	74871-09	22.	74862-13	22.
		74859-12	22.			74866-16	21.
		74861-05	22.			74870-03	22.
		74869-04	22.				
MEAN	22.0		22.0		21.9		21.8
S.D.	0.38		0.35		0.47		0.39
N	22		25		22		23

NA = LESS THAN LOWER LIMIT OF 21 DAYS -- NOT INCLUDED IN CALCULATION MEAN

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74737-03	89.0	492.7
74740-02	94.3	370.3
74757-08	72.6	655.1
74757-05	85.9	364.4
74759-02	87.8	384.6
74759-05	77.9	342.9
74764-02	107.9	581.4
74767-07	105.0	356.2
74772-02	78.8	613.8
74772-08	1.3	9.6
74773-02	52.5	740.1
74774-03	81.3	373.6
74789-04	122.5	576.8
74804-04	30.3	417.9
74808-01	94.4	376.8
74810-07	65.5	262.3
71810-02	98.2	416.4
74826-05	90.8	467.3
74829-05	87.7	378.9
74840-02	94.5	511.0
74841-02	85.4	414.6
74841-06	81.5	478.3
74844-04	94.7	441.8
74845-01	91.9	352.4
74845-03	63.0	416.1

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74854-06	89.1	543.7
74854-02	66.2	384.4
74864-06	85.3	442.1
74867-03	100.0	451.2
74867-01	73.1	402.4
MEAN	81.6	434.0
S.D.	23.16	131.12
N	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74742-03	93.4	419.7
74746-06	104.6	362.9
74753-04	69.0	430.2
74753-02	89.7	413.9
74761-09	109.1	357.8
74762-04	95.9	466.4
74790-09	62.6	456.3
74782-04	102.4	506.7
74785-04	88.3	451.2
74790-02	97.0	472.2
74796-07	102.8	423.1
74797-09	66.8	423.0
74798-04	66.5	496.1
74802-05	80.6	434.7
74802-08	187.0	447.4
74809-09	76.1	363.1
74816-05	93.2	305.0
74819-03	128.5	368.3
74823-01	111.2	514.6
74824-05	0.0	100.7
74835-03	94.0	537.6
74838-06	181.5	429.1
74839-02	83.1	381.8
74846-03	102.7	291.3
74856-06	101.0	500.3

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74859-06	91.2	400.2
74861-02	122.2	453.9
74863-05	81.5	470.0
74863-02	107.2	488.2
74869-02	85.9	499.0
MEAN	95.8	422.2
S.D.	33.29	85.49
N	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 5

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74738-02	97.4	488.1
74739-04	99.1	541.4
74743-04	86.8	413.6
74744-02	94.2	135.5
74748-05	115.7	490.6
74748-02	104.8	443.5
74752-05	102.0	433.5
74766-02	84.4	592.8
74780-03	77.0	383.3
74791-05	76.2	425.2
74791-02	93.7	470.4
74793-05	91.6	405.0
74795-06	114.6	425.9
74799-03	96.8	456.0
74801-10	89.1	461.4
74806-06	82.4	491.1
74806-03	74.6	597.5
74820-02	93.3	558.0
74821-02	113.7	355.8
74830-02	82.6	410.9
74831-02	74.3	487.8
74834-04	93.7	440.5
74847-03	74.5	432.9
74848-03	96.2	392.8
74849-03	61.6	439.4

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74850-05	83.1	520.9
74855-08	93.1	539.8
74858-04	142.0	413.9
74868-02	93.6	447.9
74871-06	112.3	276.7
MEAN	93.1	445.7
S.D.	16.07	90.07
N	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74747-04	63.3	390.0
74747-03	101.6	299.1
74751-05	145.4	328.0
74751-02	89.4	406.8
74754-09	73.5	367.8
74755-05	87.2	484.7
74768-02	97.6	346.8
74769-07	78.0	422.8
74770-06	69.5	306.6
74786-05	96.0	387.7
74786-07	80.8	475.8
74787-06	157.7	382.9
74792-03	91.3	386.2
74807-05	99.0	421.5
74811-01	83.2	474.0
74813-08	83.3	503.6
74817-04	80.6	434.9
74822-15	3.0	2.6
74822-14	143.8	334.5
74827-03	130.4	428.7
74832-03	83.7	458.0
74833-02	93.7	394.5
74836-08	94.7	411.4
74853-06	100.4	336.2
74857-10	78.7	429.3

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 211 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM NUMBERS [SPERM IN MILLIONS/G TISSUE]  
HTM-IVOS

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	LEFT EPIDIDYMIS
74860-03	95.5	530.5
74860-02	78.3	382.5
74862-08	57.1	404.8
74866-01	70.4	336.8
74870-06	102.1	391.2
MEAN	90.3	388.7
S.D.	28.75	92.69
N	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 1

MALE GROUP: 0 PPM

---

ANIMAL	LEFT TESTIS
74737-03	14.6
74740-02	15.5
74757-08	11.9
74757-05	14.1
74759-02	14.4
74759-05	12.8
74764-02	17.7
74767-07	17.2
74772-02	12.9
74772-08	0.2
74773-02	8.6
74774-03	13.3
74789-04	20.1
74804-04	5.0
74808-01	15.5
74810-07	10.7
74810-02	16.1
74826-05	14.9
74829-05	14.4
74840-02	15.5
74841-02	14.0
74841-06	13.4
74844-04	15.5
74845-01	15.1
74845-03	10.3

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 2

MALE GROUP: 0 PPM

---

ANIMAL	LEFT TESTIS
74854-06	14.6
74854-02	10.9
74864-06	14.0
74867-03	16.4
74867-01	12.0
MEAN	13.4
S.D.	3.80
N	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 3

MALE GROUP: 500 PPM

---

ANIMAL	LEFT TESTIS
74742-03	15.3
74746-06	17.1
74753-04	11.3
74753-02	14.7
74761-09	17.9
74762-04	15.7
74790-09	10.3
74782-04	16.8
74785-04	14.5
74790-02	15.9
74796-07	16.9
74797-09	11.0
74798-04	10.9
74802-05	13.2
74802-08	30.7
74809-09	12.5
74816-05	15.3
74819-03	21.1
74823-01	18.2
74824-05	0.0-A
74835-03	15.4
74838-06	29.8
74839-02	13.6
74846-03	16.8
74856-06	16.6

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A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 4

MALE GROUP: 500 PPM

---

ANIMAL	LEFT TESTIS
74859-06	15.0
74861-02	20.0
74863-05	13.4
74863-02	17.6
74869-02	14.1
MEAN	16.3
S.D.	4.67
N	29

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 5

MALE GROUP: 1000 PPM

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ANIMAL	LEFT TESTIS
74738-02	16.0
74739-04	16.2
74743-04	14.2
74744-02	15.4
74748-05	19.0
74748-02	17.2
74752-05	16.7
74766-02	13.8
74780-03	12.6
74791-05	12.5
74791-02	15.4
74793-05	15.0
74795-06	18.8
74799-03	15.9
74801-10	14.6
74806-06	13.5
74806-03	12.2
74820-02	15.3
74821-02	18.6
74830-02	13.5
74831-02	12.2
74834-04	15.4
74847-03	12.2
74848-03	15.8
74849-03	10.1

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 6

MALE GROUP: 1000 PPM

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ANIMAL	LEFT TESTIS
74850-05	13.6
74855-08	15.3
74858-04	23.3
74868-02	15.3
74871-06	18.4
MEAN	15.3
S.D.	2.64
N	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 7

MALE GROUP: 2500 PPM

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ANIMAL	LEFT TESTIS
74747-04	10.4
74747-03	16.7
74751-05	23.8
74751-02	14.7
74754-09	12.0
74755-05	14.3
74768-02	16.0
74769-07	12.8
74770-06	11.4
74786-05	15.7
74786-07	13.2
74787-06	25.9
74792-03	15.0
74807-05	16.2
74811-01	13.6
74813-08	13.7
74817-04	13.2
74822-15	0.5
74822-14	23.6
74827-03	21.4
74832-03	13.7
74833-02	15.4
74836-08	15.5
74853-06	16.5
74857-10	12.9

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 212 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM PRODUCTION RATE [SPERM IN MILLIONS/G TISSUE/DAY]

PAGE 8

MALE GROUP: 2500 PPM

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ANIMAL	LEFT TESTIS
74860-03	15.7
74860-02	12.8
74862-08	9.4
74866-01	11.5
74870-06	16.7
MEAN	14.8
S.D.	4.72
N	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74737-03	89	76
74740-02	86	77
74757-08	87	75
74757-05	81	75
74759-02	93	84
74759-05	90	78
74764-02	91	80
74767-07	89	79
74772-02	92	80
74772-08	0-A	0-A
74773-02	87	72
74774-03	89	78
74789-04	93	80
74804-04	96	91
74808-01	83	79
74810-07	86	79
74810-02	82	71
74826-05	87	84
74829-05	94	82
74840-02	94	84
74841-02	88	79
74841-06	88	77
74844-04	95	83
74845-01	B	B
74845-03	59	41

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEANS  
B = TECHNICAL ERROR, NO DATA AVAILABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74854-06	90	79
74854-02	89	80
74864-06	B	B
74867-03	92	70
74867-01	47	30
MEAN	87.	76.
S.D.	10.5	12.5
N	27	27

B = TECHNICAL ERROR, NO DATA AVAILABLE

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74742-03	48	41
74746-06	78	71
74753-04	91	83
74753-02	86	72
74761-09	76	72
74762-04	87	73
74790-09	86	78
74782-04	93	82
74785-04	91	80
74790-02	85	72
74796-07	97	91
74797-09	66	54
74798-04	89	86
74802-05	90	86
74802-08	76	61
74809-09	89	77
74816-05	90	86
74819-03	91	77
74823-01	81	67
74824-05	0-A	0-A
74835-03	91	70
74838-06	88	74
74839-02	79	66
74846-03	93	83
74856-06	92	81

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEANS

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74859-06	96	90
74861-02	76	67
74863-05	89	80
74863-02	93	88
74869-02	83	79
MEAN	85.	75.
S.D.	10.1	11.0
N	29	29

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 5

MALE GROUP: 1000 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74738-02	93	83
74739-04	89	75
74743-04	75	66
74744-02	1	1
74748-05	88	83
74748-02	90	81
74752-05	85	75
74766-02	84	75
74780-03	79	73
74791-05	87	78
74791-02	83	73
74793-05	92	79
74795-06	93	82
74799-03	94	87
74801-10	83	74
74806-06	81	78
74806-03	92	78
74820-02	85	72
74821-02	95	90
74830-02	84	78
74831-02	86	76
74834-04	90	86
74847-03	86	78
74848-03	90	86
74849-03	90	82

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74850-05	33	15
74855-08	84	78
75858-04	87	83
74868-02	92	78
74871-06	39	35
MEAN	81.	73.
S.D.	20.5	20.0
N	30	30

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74747-04	81	70
74747-03	86	77
74751-05	90	85
74751-02	90	82
74754-09	72	57
74755-05	91	81
74768-02	94	83
74769-07	86	76
74770-06	90	84
74786-05	80	62
74786-07	92	88
74787-06	91	79
74792-03	63	53
74807-05	89	84
74811-01	86	80
74813-08	82	71
74817-04	88	79
74822-15	43	36
74822-14	93	83
74827-03	91	83
74832-03	81	75
74833-02	88	76
74836-08	85	80
74853-06	88	83
74857-10	85	77

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 213 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL SPERM MOTILITY ASSESSMENTS [PERCENTAGE]  
HTM-IVOS

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	MOTILE SPERM	PROGRESSIVE MOTILE SPERM
74860-03	91	79
74860-02	93	84
74862-08	81	72
74866-01	87	82
74870-06	79	75
MEAN	85.	76.
S.D.	10.3	11.0
N	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74737-03	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74740-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74757-08	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74757-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74759-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74759-05	98.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
74764-02	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74767-07	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74772-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74772-08	80.0-A	10.0-A	10.0-A	0.0-A	0.0-A	0.0-A	0.0-A	0.0-A
73773-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74774-03	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74789-04	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74804-04	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74808-01	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74810-07	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74810-02	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74826-05	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74829-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74840-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74841-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74841-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74844-04	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74845-01	94.5	1.0	4.5	0.0	0.0	0.0	0.0	0.0
74845-03	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74854-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74854-02	98.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0
74864-06	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74867-03	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74867-01	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	99.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0
S.D.	1.12	0.48	0.88	0.00	0.00	0.00	0.00	0.00
N	29	29	29	29	29	29	29	29

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TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 500 PPM

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ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74742-03	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74746-06	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74753-04	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74753-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74761-09	96.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
74762-04	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74790-09	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74782-04	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74785-04	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74790-02	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74796-07	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74797-09	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74798-04	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74802-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74802-08	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74809-09	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74816-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74819-03	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74823-01	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74824-05	0.0	14.0	86.0	0.0	0.0	0.0	0.0	0.0
74835-03	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74838-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74839-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74846-03	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74856-06	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74859-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74861-02	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74863-05	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74863-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74869-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	96.2	0.8	3.0	0.0	0.0	0.0	0.0	0.0
S.D.	18.19	2.57	15.68	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74850-05	98.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
74855-08	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74858-04	99.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
74868-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74871-06	94.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	99.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
S.D.	1.50	1.18	0.78	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

PAGE 7

MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74747-04	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74747-03	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74751-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74751-02	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74754-09	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74755-05	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74768-02	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74769-07	98.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0
74770-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74786-05	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74786-07	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74787-06	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74792-03	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74807-05	96.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0
74811-01	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74813-08	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74817-04	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74822-15	89.5	9.5	1.0	0.0	0.0	0.0	0.0	0.0
74822-14	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74827-03	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74832-03	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74833-02	99.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
74836-08	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74853-06	99.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
74857-10	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 214 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY DIFFERENTIAL COUNTS [PERCENTAGE]

MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74860-03	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74860-02	98.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
74862-08	99.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
74866-01	98.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74870-06	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	99.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0
S.D.	2.00	1.74	0.61	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74737-03	199	1	0	0	0	0	0	0
74740-02	200	0	0	0	0	0	0	0
74757-08	200	0	0	0	0	0	0	0
74757-05	200	0	0	0	0	0	0	0
74759-02	200	0	0	0	0	0	0	0
74759-05	196	3	1	0	0	0	0	0
74764-02	199	1	0	0	0	0	0	0
74767-07	198	2	0	0	0	0	0	0
74772-02	200	0	0	0	0	0	0	0
74772-08	8-A	1-A	1-A	0-A	0-A	0-A	0-A	0-A
74773-02	200	0	0	0	0	0	0	0
74774-03	198	2	0	0	0	0	0	0
74789-04	199	1	0	0	0	0	0	0
74804-04	198	1	1	0	0	0	0	0
74808-01	197	3	0	0	0	0	0	0
74810-07	198	0	2	0	0	0	0	0
74810-02	197	2	1	0	0	0	0	0
74826-05	199	1	0	0	0	0	0	0
74829-05	200	0	0	0	0	0	0	0
74840-02	200	0	0	0	0	0	0	0
74841-02	200	0	0	0	0	0	0	0
74841-06	200	0	0	0	0	0	0	0
74844-04	200	0	0	0	0	0	0	0
74845-01	189	2	9	0	0	0	0	0
74845-03	199	1	0	0	0	0	0	0

A = LESS THAN 100 CELLS PRESENT; NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74854-06	200	0	0	0	0	0	0	0
74854-02	196	1	3	0	0	0	0	0
74864-06	197	2	1	0	0	0	0	0
74867-03	199	1	0	0	0	0	0	0
74867-01	200	0	0	0	0	0	0	0
MEAN	198.6	0.8	0.6	0.0	0.0	0.0	0.0	0.0
S.D.	2.25	0.97	1.76	0.00	0.00	0.00	0.00	0.00
N	29	29	29	29	29	29	29	29

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 3

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74742-03	200	0	0	0	0	0	0	0
74746-06	198	1	1	0	0	0	0	0
74753-04	200	0	0	0	0	0	0	0
74753-02	200	0	0	0	0	0	0	0
74761-09	192	6	2	0	0	0	0	0
74762-04	199	1	0	0	0	0	0	0
74790-09	199	0	1	0	0	0	0	0
74782-04	200	0	0	0	0	0	0	0
74785-04	200	0	0	0	0	0	0	0
74790-02	198	1	1	0	0	0	0	0
74796-07	200	0	0	0	0	0	0	0
74797-09	200	0	0	0	0	0	0	0
74798-04	199	1	0	0	0	0	0	0
74802-05	200	0	0	0	0	0	0	0
74802-08	199	1	0	0	0	0	0	0
74809-09	197	2	1	0	0	0	0	0
74816-05	200	0	0	0	0	0	0	0
74819-03	198	1	1	0	0	0	0	0
74823-01	200	0	0	0	0	0	0	0
74824-05	0	28	172	0	0	0	0	0
74835-03	198	2	0	0	0	0	0	0
74838-06	200	0	0	0	0	0	0	0
73839-02	200	0	0	0	0	0	0	0
74846-03	200	0	0	0	0	0	0	0
74856-06	198	1	1	0	0	0	0	0

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74859-06	200	0	0	0	0	0	0	0
74861-02	198	2	0	0	0	0	0	0
74863-05	199	1	0	0	0	0	0	0
74863-02	200	0	0	0	0	0	0	0
74869-02	200	0	0	0	0	0	0	0
MEAN	192.4	1.6	6.0	0.0	0.0	0.0	0.0	0.0
S.D.	36.37	5.13	31.36	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

MALE GROUP: 1000 PPM

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ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74738-02	199	1	0	0	0	0	0	0
74739-04	199	1	0	0	0	0	0	0
74743-04	199	0	1	0	0	0	0	0
74744-02	188	5	7	0	0	0	0	0
74748-05	198	1	1	0	0	0	0	0
74748-02	196	3	1	0	0	0	0	0
74752-05	195	1	4	0	0	0	0	0
74766-02	198	0	2	0	0	0	0	0
74780-03	198	0	2	0	0	0	0	0
74791-05	195	5	0	0	0	0	0	0
74791-02	198	1	1	0	0	0	0	0
74793-05	196	4	0	0	0	0	0	0
74795-06	200	0	0	0	0	0	0	0
74799-03	198	0	2	0	0	0	0	0
74801-10	200	0	0	0	0	0	0	0
74806-06	200	0	0	0	0	0	0	0
74806-03	199	1	0	0	0	0	0	0
74820-02	200	0	0	0	0	0	0	0
74821-02	200	0	0	0	0	0	0	0
74830-02	200	0	0	0	0	0	0	0
74831-02	200	0	0	0	0	0	0	0
74834-04	200	0	0	0	0	0	0	0
74847-03	200	0	0	0	0	0	0	0
74848-03	200	0	0	0	0	0	0	0
74849-03	200	0	0	0	0	0	0	0

PROJECT NO.:WIL-186013A  
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TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 6

MALE GROUP: 1000 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74850-05	197	0	3	0	0	0	0	0
74855-08	199	1	0	0	0	0	0	0
74858-04	198	1	1	0	0	0	0	0
74868-02	200	0	0	0	0	0	0	0
74871-06	189	11	0	0	0	0	0	0
MEAN	198.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
S.D.	3.00	2.35	1.56	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 7

MALE GROUP: 2500 PPM

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ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74747-04	200	0	0	0	0	0	0	0
74747-03	199	1	0	0	0	0	0	0
74751-05	200	0	0	0	0	0	0	0
74751-02	200	0	0	0	0	0	0	0
74754-09	200	0	0	0	0	0	0	0
74755-05	200	0	0	0	0	0	0	0
74768-02	197	3	0	0	0	0	0	0
74769-07	197	1	2	0	0	0	0	0
74770-06	200	0	0	0	0	0	0	0
74786-05	199	0	1	0	0	0	0	0
74786-07	200	0	0	0	0	0	0	0
74787-06	199	1	0	0	0	0	0	0
74792-03	200	0	0	0	0	0	0	0
74807-05	192	2	6	0	0	0	0	0
74811-01	199	0	1	0	0	0	0	0
74813-08	200	0	0	0	0	0	0	0
74817-04	198	2	0	0	0	0	0	0
74822-15	179	19	2	0	0	0	0	0
74822-14	198	2	0	0	0	0	0	0
74827-03	200	0	0	0	0	0	0	0
74832-03	197	2	1	0	0	0	0	0
74833-02	199	1	0	0	0	0	0	0
74836-08	200	0	0	0	0	0	0	0
74853-06	199	0	1	0	0	0	0	0
74857-10	200	0	0	0	0	0	0	0

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 215 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL SPERM MORPHOLOGY COUNTS [ABSOLUTE NUMBER]

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	NORMAL	NORMAL HEAD/ SEPARATED FLAGELLUM	HEAD ABSENT/ NORMAL FLAGELLUM	HEAD ABSENT/ ABNORMAL FLAGELLUM	MISSHAPEN HEAD/ NORMAL FLAGELLUM	MISSHAPEN HEAD/ ABNORMAL FLAGELLUM	DEGENERATIVE FLAGELLAR DEFECTS/ NORMAL HEAD	OTHER FLAGELLAR DEFECTS/ NORMAL HEAD
74860-03	200	0	0	0	0	0	0	0
74860-02	197	2	1	0	0	0	0	0
74862-08	198	0	2	0	0	0	0	0
74866-01	197	3	0	0	0	0	0	0
74870-06	200	0	0	0	0	0	0	0
MEAN	198.1	1.3	0.6	0.0	0.0	0.0	0.0	0.0
S.D.	4.00	3.49	1.22	0.00	0.00	0.00	0.00	0.00
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 1

ANIMAL NO.74737-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.03	0.347		MINERALIZATION					1
LIVER	20.84	3.562		CORTEX					1
KIDNEYS	3.70	0.632	PITUITARY	GROSS: PALE					P
SPLEEN	0.81	0.138	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
SEM VES/CG/FLUID	2.82	0.482		NO CORRELATE TO GROSS PALLOR					
PROSTATE	1.41	0.241	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					2
RIGHT TESTIS	1.95	0.333	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE					1
LEFT TESTIS	1.95	0.333	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.70	0.120	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.71	0.121		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.3244	0.055		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2974	0.051		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2013	0.034		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0546	0.009		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
PITUITARY	0.0170	0.003		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
FINAL BODY WT(G)	585.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER		
				PITUITARY	SPLEEN	SEMINAL VESICLES	THYMUS		
				RIGHT TESTIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 2

ANIMAL NO.74740-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	1.97	0.389		BILATERAL					P
LIVER	19.19	3.785	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.55	0.700		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.79	0.156	NO SIGNIFICANT						
SEM VES/CG/FLUID	2.40	0.473	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	0.95	0.187		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.64	0.323		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.74	0.343		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.72	0.142		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.70	0.138		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.2888	0.057		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3300	0.065		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.2739	0.054		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0362	0.007		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0148	0.003							
FINAL BODY WT(G)	507.								

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 3

ANIMAL NO.74740-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74757-08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES					
BRAIN	2.02	0.339	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	18.00	3.020		NECROSIS, HEPATOCELLULAR					1
KIDNEYS	4.10	0.688		FOCAL					
SPLEEN	0.91	0.153	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					2
SEM VES/CG/FLUID	2.10	0.352	NO SIGNIFICANT						
PROSTATE	1.13	0.190	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.83	0.307		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.83	0.307		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.78	0.131		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.68	0.114		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2992	0.050		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3188	0.053		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2208	0.037		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0718	0.012		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0165	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	596.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74757-05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.16	0.359	KIDNEYS	GROSS: AREA(S), DEPRESSED					P
LIVER	21.94	3.651	KIDNEYS	FEW, IRREGULARLY SHAPED, IN CORTEX, RIGHT					
KIDNEYS	3.93	0.654		MICRO: INFLAMMATION, SUBACUTE					1
SPLEEN	1.07	0.178		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SEM VES/CG/FLUID	1.86	0.309		DILATATION, TUBULAR					1
PROSTATE	1.45	0.241	LIVER	FOCAL					
RIGHT TESTIS	1.96	0.326	LUNGS	MICRO: INFILTRATE, MONONUCLEAR					1
LEFT TESTIS	1.92	0.319	LUNGS	GROSS: AREA(S), DARK RED					P
RIGHT EPIDIDYMIS	0.78	0.130		MULTIPLE, IRREGULARLY SHAPED, ALL LOBES					
LEFT EPIDIDYMIS	0.78	0.130		MICRO: INFILTRATE, MONONUCLEAR, PERIVASCULAR					1
RIGHT CAUDA EPID	0.3322	0.055		HEMORRHAGE					1
LEFT CAUDA EPID	0.3144	0.052	PROSTATE	CORRELATES TO GROSS RED AREA					
THYMUS	0.2250	0.037	THYMUS	MICRO: INFLAMMATION, SUBACUTE					1
ADRENAL GLANDS	0.0839	0.014	NO SIGNIFICANT	MICRO: HEMORRHAGE					1
PITUITARY	0.0183	0.003	CHANGES OBSERVED						
FINAL BODY WT(G)	601.			GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
				CECUM	COLON	DUODENUM	ESOPHAGUS		
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				LIVER	LYMPH NODE, MES	MAMMARY GLAND	NERVE, SCIATIC		
				VAS DEFERENS	PANCREAS	PITUITARY	PROSTATE		
				RECTUM	SPINAL CORD	SAL. GLAND MAND	STOMACH		
				SKELETAL MUSCLE	SKIN	SPLEEN	SEMINAL VESICLES		
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER		
				RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74759-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.09	0.404		BASOPHILIC TUBULES				1
LIVER	20.36	3.938	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
KIDNEYS	3.38	0.654	NO SIGNIFICANT					1
SPLEEN	0.66	0.128	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.29	0.443		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.39	0.269		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.73	0.335		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.73	0.335		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.68	0.132		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.71	0.137		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.3119	0.060		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.3122	0.060		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.2029	0.039		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0581	0.011		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
PITUITARY	0.0168	0.003		PITUITARY	SPLEEN	SEMINAL VESICLES	THYMUS	
FINAL BODY WT(G)	517.			RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74759-05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.09	0.412		DILATATION, TUBULAR				1
LIVER	19.04	3.755		FOCAL				1
KIDNEYS	3.22	0.635	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SPLEEN	0.85	0.168	NO SIGNIFICANT					
SEM VES/CG/FLUID	2.46	0.485	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	0.68	0.134		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.62	0.320		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.57	0.310		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT EPIDIDYMIS	0.80	0.158		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT EPIDIDYMIS	0.77	0.152		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT CAUDA EPID	0.3231	0.064		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT CAUDA EPID	0.3405	0.067		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
THYMUS	0.3591	0.071		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
ADRENAL GLANDS	0.0597	0.012		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
PITUITARY	0.0154	0.003		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
FINAL BODY WT(G)	507.			PITUITARY	SPLEEN	SEMINAL VESICLES	THYMUS	
				RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74764-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	1.97	0.345		ZONA FASCICULATA					1
LIVER	20.83	3.648	KIDNEYS	MICRO: BASOPHILIC TUBULES					2
KIDNEYS	3.83	0.671		FOCAL					
SPLEEN	0.83	0.145		DILATATION, TUBULAR					1
SEM VES/CG/FLUID	2.87	0.503		FOCAL					
PROSTATE	1.22	0.214		INFLAMMATION, SUBACUTE					1
RIGHT TESTIS	1.77	0.310	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LEFT TESTIS	1.77	0.310	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
RIGHT EPIDIDYMIS	0.69	0.121	THYMUS	MICRO: HEMORRHAGE					2
LEFT EPIDIDYMIS	0.73	0.128		NO SIGNIFICANT					
RIGHT CAUDA EPID	0.3536	0.062	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT CAUDA EPID	0.3471	0.061		CECUM	COLON	DUODENUM	ESOPHAGUS		
THYMUS	0.2115	0.037		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
ADRENAL GLANDS	0.0744	0.013		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
PITUITARY	0.0194	0.003		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
FINAL BODY WT(G)	571.			PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	SPLEEN		
				SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74767-07 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.03	0.417		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.65	3.214		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.17	0.651		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.152		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.85	0.585		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.04	0.214		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.86	0.382		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.91	0.392		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.78	0.160		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.79	0.162					
RIGHT CAUDA EPID	0.3335	0.068					
LEFT CAUDA EPID	0.3233	0.066					
THYMUS	0.1210	0.025					
ADRENAL GLANDS	0.0561	0.012					
PITUITARY	0.0149	0.003					
FINAL BODY WT(G)	487.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74772-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC				
BRAIN	2.34	0.412		ZONA FASCICULATA				1
LIVER	23.83	4.195	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
KIDNEYS	3.98	0.701		BASOPHILIC TUBULES				1
SPLEEN	0.99	0.174	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED				P
SEM VES/CG/FLUID	2.41	0.424		BILATERAL				
PROSTATE	1.50	0.264	LYMPH NODE, MAND	GROSS: ENLARGED				P
RIGHT TESTIS	1.92	0.338		BILATERAL				
LEFT TESTIS	2.06	0.363	LYMPH NODE, MAND	MICRO: HEMORRHAGE				2
RIGHT EPIDIDYMIS	0.79	0.139		CORRELATES TO GROSS RED DISCOLORATION; NO CORRELATE TO GROSS				
LEFT EPIDIDYMIS	0.82	0.144		ENLARGEMENT				
RIGHT CAUDA EPID	0.3298	0.058	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
LEFT CAUDA EPID	0.3743	0.066	SKIN	GROSS: HAIR LOSS				P
THYMUS	0.1980	0.035		VENTRAL NECK, FORELIMB, BILATERAL				
ADRENAL GLANDS	0.0569	0.010	SKIN	MICRO: NOT EXAMINED				
PITUITARY	0.0184	0.003		COULD NOT CONFIRM GROSS HAIR LOSS; SKIN NOT EXAMINED; NOT				
FINAL BODY WT(G)	568.			PRESENT AT TRIMMING				
			THYMUS	MICRO: HEMORRHAGE				1
			NO SIGNIFICANT					
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SPLEEN	
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74772-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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URINARY BLADDER RIGHT TESTIS LEFT TESTIS LEFT EPIDIDYMIS  
RIGHT EPIDIDYMIS COAGULATING GL  
MICRO:ADRENAL MEDULLA BRAIN PITUITARY PROSTATE  
SPLEEN SEMINAL VESICLES RIGHT TESTIS RIGHT EPIDIDYMIS  
COAGULATING GL

NOT EXAMINED

MICRO:SKIN

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74772-08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.						
BRAIN	2.29	0.413	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
LIVER	21.21	3.822		ONE, IRREGULARLY SHAPED, IN CORTEX, RIGHT; ONE, 2 MM IN				
KIDNEYS	4.05	0.730	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
SPLEEN	1.01	0.182		DILATATION, TUBULAR				1
SEM VES/CG/FLUID	1.75	0.315		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA				
PROSTATE	0.88	0.159	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
RIGHT TESTIS	0.57	0.103	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
LEFT TESTIS	0.69	0.124	RIGHT TESTIS	GROSS: SOFT				P
RIGHT EPIDIDYMIS	0.37	0.067	RIGHT TESTIS	GROSS: SMALL				P
LEFT EPIDIDYMIS	0.36	0.065	RIGHT TESTIS	MICRO: DEGENERATION, SEMINIFEROUS TUBULES				4
RIGHT CAUDA EPID	0.1411	0.025		CORRELATES WITH GROSS SMALL AND SOFT				
LEFT CAUDA EPID	0.1411	0.025	LEFT TESTIS	GROSS: SMALL				P
THYMUS	0.2634	0.047	LEFT TESTIS	GROSS: SOFT				P
ADRENAL GLANDS	0.0542	0.010	LEFT EPIDIDYMIS	GROSS: SMALL				P
PITUITARY	0.0165	0.003	LEFT EPIDIDYMIS	GROSS: SOFT				P
FINAL BODY WT(G)	555.		RIGHT EPIDIDYMIS	GROSS: SMALL				P
			RIGHT EPIDIDYMIS	GROSS: SOFT				P
			RIGHT EPIDIDYMIS	MICRO: HYOSPERMIA				4
				CORRELATES TO GROSS SMALLNESS AND SOFTNESS				
			NO SIGNIFICANT					
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
				NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74772-08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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URINARY BLADDER COAGULATING GL  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN PITUITARY  
SPLEEN SEMINAL VESICLES THYMUS COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74773-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.47	0.492		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	13.87	2.763		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.53	0.703		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.83	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.31	0.460		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.58	0.315		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.94	0.388		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.95	0.388		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.77	0.153		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.72	0.143					
RIGHT CAUDA EPID	0.2716	0.054					
LEFT CAUDA EPID	0.2936	0.058					
THYMUS	0.1693	0.034					
ADRENAL GLANDS	0.0698	0.014					
PITUITARY	0.0157	0.003					
FINAL BODY WT(G)	502.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74774-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.12	0.348		BASOPHILIC TUBULES				1
LIVER	18.62	3.057	LIVER	MICRO: INFILTRATE, MONONUCLEAR				2
KIDNEYS	3.90	0.640	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SPLEEN	0.81	0.133	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	2.29	0.376	NO SIGNIFICANT					2
PROSTATE	1.06	0.174	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.82	0.299		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.89	0.310		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.64	0.105		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.72	0.118		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.2953	0.048		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.3387	0.056		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.3036	0.050		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0516	0.008		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0154	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	609.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74789-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	1.89	0.385		ZONA FASCICULATA					1
LIVER	19.23	3.916	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.32	0.676		BASOPHILIC TUBULES					1
SPLEEN	0.80	0.163	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SEM VES/CG/FLUID	2.09	0.426	THYMUS	MICRO: HEMORRHAGE					1
PROSTATE	1.19	0.242	NO SIGNIFICANT						
RIGHT TESTIS	1.59	0.324	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.63	0.332		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.63	0.128		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.63	0.128		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.3080	0.063		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3267	0.067		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.3089	0.063		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0541	0.011		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0164	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	491.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	PROSTATE		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74804-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: MECHANICAL TRAUMA				P
BRAIN	2.03	0.384		DISTAL TAIL MISSING				
LIVER	16.23	3.068	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
KIDNEYS	3.17	0.599		BASOPHILIC TUBULES				1
SPLEEN	0.62	0.117	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SEM VES/CG/FLUID	2.18	0.412	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
PROSTATE	1.31	0.248	NO SIGNIFICANT					
RIGHT TESTIS	1.66	0.314	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.63	0.308		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.72	0.136		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.69	0.130		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.3173	0.060		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.3200	0.060		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.3537	0.067		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0449	0.008		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0133	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	529.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74808-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.07	0.363		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.48	3.768		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.88	0.681		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.137		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	3.18	0.558		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.95	0.167		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.83	0.321		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.82	0.319		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.73	0.128		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.82	0.144					
RIGHT CAUDA EPID	0.3254	0.057					
LEFT CAUDA EPID	0.3541	0.062					
THYMUS	0.2078	0.036					
ADRENAL GLANDS	0.0495	0.009					
PITUITARY	0.0139	0.002					
FINAL BODY WT(G)	570.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74810-07 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.07	0.413		BASOPHILIC TUBULES					1
LIVER	17.09	3.411	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.96	0.790	PITUITARY	MICRO: CYST, PARS DISTALIS					2
SPLEEN	0.99	0.198	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
SEM VES/CG/FLUID	2.54	0.507	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE					1
PROSTATE	1.44	0.287	NO SIGNIFICANT						
RIGHT TESTIS	1.98	0.395	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.96	0.391		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.76	0.152		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.75	0.150		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT CAUDA EPID	0.3378	0.067		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT CAUDA EPID	0.3356	0.067		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
THYMUS	0.1546	0.031		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
ADRENAL GLANDS	0.0628	0.013		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
PITUITARY	0.0123	0.002		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
FINAL BODY WT(G)	501.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	SPLEEN		
				SEMINAL VESICLES	THYMUS	RIGHT TESTIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74810-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.02	0.353	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	18.10	3.164	LUNGS	GROSS: AREA(S), DARK RED					P
KIDNEYS	3.80	0.664		MULTIPLE, 1 TO 3 MM IN DIAMETER, ALL LOBES					
SPLEEN	1.00	0.175	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, SUBPLEURAL					1
SEM VES/CG/FLUID	2.03	0.355		NO CORRELATE TO GROSS RED AREA					
PROSTATE	0.61	0.107	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
RIGHT TESTIS	2.27	0.397	THYMUS	MICRO: HEMORRHAGE					1
LEFT TESTIS	1.82	0.318	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.71	0.124	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.62	0.108		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2393	0.042		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2460	0.043		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND		
THYMUS	0.2094	0.037		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
ADRENAL GLANDS	0.0491	0.009		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
PITUITARY	0.0152	0.003		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
FINAL BODY WT(G)	572.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74826-05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED			
BRAIN	2.14	0.408		ONE ADRENAL MEDULLA EVALUATED; OTHER NOT IN PLANE; RECUT			
LIVER	17.34	3.303		EVALUATED			
KIDNEYS	4.16	0.792	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE			1
SPLEEN	0.69	0.131	LIVER	MICRO: INFILTRATE, MONONUCLEAR			1
SEM VES/CG/FLUID	2.99	0.570	PITUITARY	MICRO: ANGIECTASIS			1
PROSTATE	1.19	0.227		PARS DISTALIS			
RIGHT TESTIS	1.88	0.358	PROSTATE	MICRO: INFLAMMATION, SUBACUTE			1
LEFT TESTIS	1.93	0.368	RIGHT EPIDIDYMIS	MICRO: VACUOLATION			2
RIGHT EPIDIDYMIS	0.70	0.133		LINING EPITHELIUM; SEGMENTAL			
LEFT EPIDIDYMIS	0.74	0.141	NO SIGNIFICANT				
RIGHT CAUDA EPID	0.3514	0.067	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
LEFT CAUDA EPID	0.3280	0.062		CECUM	COLON	DUODENUM	ESOPHAGUS
THYMUS	0.1789	0.034		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
ADRENAL GLANDS	0.0763	0.015		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
PITUITARY	0.0183	0.003		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
FINAL BODY WT(G)	525.			PITUITARY	PROSTATE	RECTUM	SPINAL CORD
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	SPLEEN
				SEMINAL VESICLES	THYMUS	RIGHT TESTIS	COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74829-05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: DILATED PELVIS					
BRAIN	2.15	0.431		RIGHT					1
LIVER	15.34	3.074	KIDNEYS	MICRO: BASOPHILIC TUBULES					1
KIDNEYS	3.31	0.663		HYDRONEPHROSIS					2
SPLEEN	0.68	0.136		CORRELATES TO GROSS DILATED PELVIS					
SEM VES/CG/FLUID	1.16	0.232		INFLAMMATION, SUBACUTE					1
PROSTATE	0.83	0.166		DILATATION, TUBULAR					2
RIGHT TESTIS	1.90	0.381		MEDULLA					
LEFT TESTIS	1.89	0.379	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
RIGHT EPIDIDYMIS	0.80	0.160	NO SIGNIFICANT						
LEFT EPIDIDYMIS	0.71	0.142	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT CAUDA EPID	0.3347	0.067		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT CAUDA EPID	0.2823	0.057		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
THYMUS	0.1564	0.031		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
ADRENAL GLANDS	0.0599	0.012		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
PITUITARY	0.0152	0.003		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
FINAL BODY WT(G)	499.			STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				PROSTATE	SPLEEN	SEMINAL VESICLES	THYMUS		
				RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74840-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.407		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.86	4.220		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.89	0.751		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.84	0.162		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	3.06	0.591		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.46	0.282		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.95	0.376		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.02	0.390		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.77	0.149		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.80	0.154					
RIGHT CAUDA EPID	0.3860	0.075					
LEFT CAUDA EPID	0.4225	0.082					
THYMUS	0.2616	0.051					
ADRENAL GLANDS	0.0660	0.013					
PITUITARY	0.0147	0.003					
FINAL BODY WT(G)	518.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74841-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.403		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.92	3.312		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.54	0.654		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.89	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.50	0.462		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.49	0.275		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.92	0.355		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.93	0.357		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.82	0.152		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.139					
RIGHT CAUDA EPID	0.3464	0.064					
LEFT CAUDA EPID	0.3397	0.063					
THYMUS	0.2281	0.042					
ADRENAL GLANDS	0.0422	0.008					
PITUITARY	0.0165	0.003					
FINAL BODY WT(G)	541.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74841-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.21	0.432		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.57	3.432		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.43	0.670		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.152		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.06	0.402		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.33	0.260		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.51	0.295		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.64	0.320		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.146		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.146					
RIGHT CAUDA EPID	0.3642	0.071					
LEFT CAUDA EPID	0.3639	0.071					
THYMUS	0.2858	0.056					
ADRENAL GLANDS	0.0506	0.010					
PITUITARY	0.0145	0.003					
FINAL BODY WT(G)	512.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74844-04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: MINERALIZATION					
BRAIN	2.02	0.401	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	19.39	3.847	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.61	0.716	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.75	0.149	NO SIGNIFICANT						
SEM VES/CG/FLUID	2.04	0.405	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	1.06	0.210		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.81	0.359		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.86	0.369		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.69	0.137		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.68	0.135		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.3149	0.062		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3110	0.062		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.1357	0.027		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0571	0.011		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0144	0.003		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
FINAL BODY WT(G)	504.			SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74845-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.387		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.48	3.594		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.45	0.637		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.98	0.181		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.94	0.542		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.47	0.271		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.90	0.351		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.86	0.343		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.138		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.81	0.149					
RIGHT CAUDA EPID	0.2916	0.054					
LEFT CAUDA EPID	0.3094	0.057					
THYMUS	0.1592	0.029					
ADRENAL GLANDS	0.0585	0.011					
PITUITARY	0.0208	0.004					
FINAL BODY WT(G)	542.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74845-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.96	0.368		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.39	3.645		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.05	0.573		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.80	0.150		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.63	0.306		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.65	0.122		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.90	0.357		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.90	0.357		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.83	0.156		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.81	0.152					
RIGHT CAUDA EPID	0.3750	0.070					
LEFT CAUDA EPID	0.2995	0.056					
THYMUS	0.2155	0.041					
ADRENAL GLANDS	0.0513	0.010					
PITUITARY	0.0148	0.003					
FINAL BODY WT(G)	532.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74854-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.410		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.78	3.064		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.46	0.672		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.99	0.192		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.73	0.530		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.33	0.258		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.86	0.361		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.87	0.363		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.77	0.150		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.142					
RIGHT CAUDA EPID	0.3249	0.063					
LEFT CAUDA EPID	0.3085	0.060					
THYMUS	0.1710	0.033					
ADRENAL GLANDS	0.0605	0.012					
PITUITARY	0.0170	0.003					
FINAL BODY WT(G)	515.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74854-02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.								
BRAIN	1.97	0.326	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE						1
LIVER	21.98	3.639		BASOPHILIC TUBULES						1
KIDNEYS	3.72	0.616		DILATATION, TUBULAR						1
SPLEEN	0.99	0.164	LIVER	MICRO: INFILTRATE, MONONUCLEAR						1
SEM VES/CG/FLUID	1.46	0.242		NECROSIS, HEPATOCELLULAR						1
PROSTATE	1.39	0.230	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE						1
RIGHT TESTIS	1.83	0.303	THYMUS	MICRO: HEMORRHAGE						1
LEFT TESTIS	1.73	0.286	NO SIGNIFICANT							
RIGHT EPIDIDYMIS	0.72	0.119	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT EPIDIDYMIS	0.83	0.137		CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT CAUDA EPID	0.3435	0.057		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT CAUDA EPID	0.3552	0.059		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
THYMUS	0.2451	0.041		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
ADRENAL GLANDS	0.0513	0.008		PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
PITUITARY	0.0153	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
FINAL BODY WT(G)	604.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS			
				COAGULATING GL						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74864-06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.01	0.362		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.87	3.574		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.44	0.619		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.92	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.00	0.360		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.80	0.144		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.73	0.311		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.76	0.317		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.72	0.129		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.140					
RIGHT CAUDA EPID	0.3116	0.056					
LEFT CAUDA EPID	0.3745	0.067					
THYMUS	0.2893	0.052					
ADRENAL GLANDS	0.0734	0.013					
PITUITARY	0.0148	0.003					
FINAL BODY WT(G)	556.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74867-03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	2.27	0.355		ZONA FASCICULATA					1
LIVER	19.94	3.121	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	4.16	0.651		BASOPHILIC TUBULES					1
SPLEEN	0.88	0.138	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SEM VES/CG/FLUID	2.13	0.333	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					2
PROSTATE	1.24	0.194	THYMUS	MICRO: HEMORRHAGE					1
RIGHT TESTIS	1.86	0.291	NO SIGNIFICANT CHANGES OBSERVED						
LEFT TESTIS	1.91	0.299	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
RIGHT EPIDIDYMIS	0.75	0.117	CECUM	COLON	DUODENUM	ESOPHAGUS			
LEFT EPIDIDYMIS	0.81	0.127	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
RIGHT CAUDA EPID	0.3557	0.056	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
LEFT CAUDA EPID	0.3518	0.055	MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
THYMUS	0.2531	0.040	PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
ADRENAL GLANDS	0.0678	0.011	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
PITUITARY	0.0179	0.003	SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
FINAL BODY WT(G)	639.		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
			MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	SPLEEN			
			SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74867-01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.325		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.80	3.385		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.88	0.602		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.92	0.143		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.96	0.304		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.98	0.152		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.276		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.275		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.81	0.126		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.113					
RIGHT CAUDA EPID	0.3507	0.054					
LEFT CAUDA EPID	0.3183	0.049					
THYMUS	0.2018	0.031					
ADRENAL GLANDS	0.0386	0.006					
PITUITARY	0.0133	0.002					
FINAL BODY WT(G)	644.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74742-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.84	0.417		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.97	3.395		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.18	0.721		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.72	0.163		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.37	0.537		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.90	0.204		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.67	0.379		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.57	0.356		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.63	0.143		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.70	0.159					
RIGHT CAUDA EPID	0.3275	0.074					
LEFT CAUDA EPID	0.3354	0.076					
THYMUS	0.2874	0.065					
ADRENAL GLANDS	0.0511	0.012					
PITUITARY	0.0135	0.003					
FINAL BODY WT(G)	441.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74746-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.81	0.404		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	12.53	2.797		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.99	0.667		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.76	0.170		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.38	0.531		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.08	0.241		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.41	0.315		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.46	0.326		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.66	0.147		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.66	0.147					
RIGHT CAUDA EPID	0.2751	0.061					
LEFT CAUDA EPID	0.3096	0.069					
THYMUS	0.2235	0.050					
ADRENAL GLANDS	0.0469	0.010					
PITUITARY	0.0144	0.003					
FINAL BODY WT(G)	448.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74753-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.07	0.381		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.33	3.192		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.39	0.624		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.81	0.149		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.59	0.477		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.12	0.206		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.86	0.343		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.81	0.333		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.71	0.131		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.144					
RIGHT CAUDA EPID	0.3361	0.062					
LEFT CAUDA EPID	0.3799	0.070					
THYMUS	0.3201	0.059					
ADRENAL GLANDS	0.0761	0.014					
PITUITARY	0.0134	0.002					
FINAL BODY WT(G)	543.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 37

ANIMAL NO.74753-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.								
BRAIN	2.02	0.414	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE						1
LIVER	17.46	3.578	LIVER	MICRO: INFILTRATE, MONONUCLEAR						1
KIDNEYS	3.50	0.717	PITUITARY	GROSS: PALE						P
SPLEEN	0.90	0.184	PITUITARY	MICRO: VACUOLATION, PARS DISTALIS						1
SEM VES/CG/FLUID	1.88	0.385		SCATTERED ENLARGED CELLS WITH FOAMY CYTOPLASM (SIGNET RING CELLS); CORRELATES WITH GROSS PALLOR						
PROSTATE	1.27	0.260	PROSTATE	MICRO: INFLAMMATION, SUBACUTE						1
RIGHT TESTIS	1.71	0.350	THYMUS	MICRO: HEMORRHAGE						1
LEFT TESTIS	1.77	0.363	NO SIGNIFICANT							
RIGHT EPIDIDYMIS	0.73	0.150	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT EPIDIDYMIS	0.80	0.164		CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT CAUDA EPID	0.3850	0.079		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT CAUDA EPID	0.3663	0.075		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
THYMUS	0.3143	0.064		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
ADRENAL GLANDS	0.0678	0.014		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND			
PITUITARY	0.0117	0.002		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN			
FINAL BODY WT(G)	488.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA			
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS			
				RIGHT EPIDIDYMIS	COAGULATING GL					
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	SPLEEN			
				SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 38

ANIMAL NO.74761-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	1.78	0.426		MINERALIZATION					1
LIVER	15.30	3.660		MEDULLA					1
KIDNEYS	2.27	0.543	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SPLEEN	0.77	0.184	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
SEM VES/CG/FLUID	1.70	0.407	NO SIGNIFICANT						
PROSTATE	0.91	0.218	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.36	0.325		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.40	0.335		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.61	0.146		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.60	0.144		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2544	0.061		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.2540	0.061		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2419	0.058		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0502	0.012		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0117	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	418.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74762-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	PITUITARY	GROSS: PALE				
BRAIN	2.11	0.487	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED				P
LIVER	14.96	3.455		NO CORRELATE TO GROSS PALLOR				
KIDNEYS	2.59	0.598	NO SIGNIFICANT					
SPLEEN	0.72	0.166	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.63	0.607		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.21	0.279		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.67	0.386		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.61	0.372		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.61	0.141		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
LEFT EPIDIDYMIS	0.64	0.148		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
RIGHT CAUDA EPID	0.2747	0.063		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
LEFT CAUDA EPID	0.2617	0.060		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
THYMUS	0.2951	0.068		RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0469	0.011		MICRO:PITUITARY				
PITUITARY	0.0123	0.003						
FINAL BODY WT(G)	433.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74762-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74790-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.384		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.78	3.068		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.25	0.594		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.82	0.150		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.59	0.473		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.51	0.276		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.79	0.327		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.87	0.342		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.78	0.143		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.72	0.132					
RIGHT CAUDA EPID	0.3136	0.057					
LEFT CAUDA EPID	0.3401	0.062					
THYMUS	0.4034	0.074					
ADRENAL GLANDS	0.0612	0.011					
PITUITARY	0.0147	0.003					
FINAL BODY WT(G)	547.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74782-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES					
BRAIN	1.91	0.448		INFLAMMATION, SUBACUTE					1
LIVER	13.18	3.094		DILATATION, TUBULAR					2
KIDNEYS	3.23	0.758		HYPERPLASIA, TUBULAR					2
SPLEEN	0.71	0.167		FOCAL					
SEM VES/CG/FLUID	1.65	0.387	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
PROSTATE	1.04	0.244		HYPERPLASIA, BILE DUCT					1
RIGHT TESTIS	1.34	0.315	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
LEFT TESTIS	1.33	0.312	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.59	0.138	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.51	0.120		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2230	0.052		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2219	0.052		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.3346	0.079		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0648	0.015		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0130	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
FINAL BODY WT(G)	426.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74785-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED					P
BRAIN	2.02	0.392		FEW, IRREGULARLY SHAPED, IN CORTEX, RIGHT					
LIVER	18.34	3.561	KIDNEYS	MICRO: BASOPHILIC TUBULES					1
KIDNEYS	3.05	0.592		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SPLEEN	0.78	0.151		DILATATION, TUBULAR					1
SEM VES/CG/FLUID	2.25	0.437	NO SIGNIFICANT						
PROSTATE	1.10	0.214	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.61	0.313		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.69	0.328		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.70	0.136		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
LEFT EPIDIDYMIS	0.67	0.130		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
RIGHT CAUDA EPID	0.2835	0.055		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
LEFT CAUDA EPID	0.2933	0.057		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
THYMUS	0.1991	0.039		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
ADRENAL GLANDS	0.0489	0.009		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
PITUITARY	0.0167	0.003		RIGHT EPIDIDYMIS	COAGULATING GL				
FINAL BODY WT(G)	515.								

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74785-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74790-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.17	0.379		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.78	3.277		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.99	0.696		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.136		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.38	0.415		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.53	0.267		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.83	0.319		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.86	0.325		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.120		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.129					
RIGHT CAUDA EPID	0.2892	0.050					
LEFT CAUDA EPID	0.3201	0.056					
THYMUS	0.2914	0.051					
ADRENAL GLANDS	0.0583	0.010					
PITUITARY	0.0125	0.002					
FINAL BODY WT(G)	573.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74796-07 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.82	0.374		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.58	3.199		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.56	0.526		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.65	0.133		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.22	0.456		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.20	0.246		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.50	0.308		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.46	0.300		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.59	0.121		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.64	0.131					
RIGHT CAUDA EPID	0.2880	0.059					
LEFT CAUDA EPID	0.2580	0.053					
THYMUS	0.2381	0.049					
ADRENAL GLANDS	0.0526	0.011					
PITUITARY	0.0190	0.004					
FINAL BODY WT(G)	487.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74797-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.01	0.356		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	20.65	3.655		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.11	0.727		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.75	0.133		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.22	0.393		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.10	0.195		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.80	0.319		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.82	0.322		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.73	0.129		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.120					
RIGHT CAUDA EPID	0.3378	0.060					
LEFT CAUDA EPID	0.3192	0.056					
THYMUS	0.2431	0.043					
ADRENAL GLANDS	0.0543	0.010					
PITUITARY	0.0158	0.003					
FINAL BODY WT(G)	565.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74798-04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.14	0.425		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.89	4.352		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.83	0.761		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.83	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.18	0.433		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.48	0.294		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.51	0.300		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.54	0.306		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.62	0.123		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.64	0.127					
RIGHT CAUDA EPID	0.2821	0.056					
LEFT CAUDA EPID	0.2434	0.048					
THYMUS	0.2623	0.052					
ADRENAL GLANDS	0.0668	0.013					
PITUITARY	0.0144	0.003					
FINAL BODY WT(G)	503.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74802-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: DILATED PELVIS				
BRAIN	2.05	0.388		RIGHT				2
LIVER	18.36	3.477	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
KIDNEYS	3.52	0.667		HYDRONEPHROSIS				1
SPLEEN	0.83	0.157		CORRELATES TO GROSS DILATED PELVIS				
SEM VES/CG/FLUID	2.31	0.438	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
PROSTATE	1.12	0.212	PITUITARY	MICRO: CYST, PARS INTERMEDIA				1
RIGHT TESTIS	1.98	0.375	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				2
LEFT TESTIS	1.98	0.375	NO SIGNIFICANT					
RIGHT EPIDIDYMIS	0.74	0.140	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT EPIDIDYMIS	0.79	0.150		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT CAUDA EPID	0.3168	0.060		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT CAUDA EPID	0.3776	0.072		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
THYMUS	0.3970	0.075		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
ADRENAL GLANDS	0.0632	0.012		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
PITUITARY	0.0173	0.003		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
FINAL BODY WT(G)	528.			SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
				RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	SPLEEN	
				SEMINAL VESICLES	THYMUS	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74802-08 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED					
BRAIN	2.04	0.454		ONE, 2 MM IN DIAMETER, IN CORTEX, RIGHT					P
LIVER	16.46	3.666	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
KIDNEYS	3.39	0.755		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SPLEEN	0.86	0.192	SEMINAL VESICLES	GROSS: SMALL					P
SEM VES/CG/FLUID	1.85	0.412		LEFT HORN					
PROSTATE	1.42	0.316	SEMINAL VESICLES	MICRO: DECREASED SECRETION					1
RIGHT TESTIS	2.03	0.452		CORRELATES TO GROSS SMALL SIZE					
LEFT TESTIS	1.98	0.441	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.77	0.171	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.74	0.165		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.3365	0.075		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2984	0.066		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
THYMUS	0.2539	0.057		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
ADRENAL GLANDS	0.0582	0.013		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
PITUITARY	0.0172	0.004		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
FINAL BODY WT(G)	449.			THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER		
				RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					
				MICRO:KIDNEYS					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74809-09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	TEETH	GROSS: MALALIGNED				P
BRAIN	2.24	0.401		UPPER INCISOR, BILATERAL				
LIVER	15.47	2.772	NO SIGNIFICANT					
KIDNEYS	3.61	0.647	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.78	0.140		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.34	0.419		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	1.18	0.211		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.73	0.310		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.78	0.319		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.74	0.133		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT EPIDIDYMIS	0.70	0.125		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
RIGHT CAUDA EPID	0.2771	0.050		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
LEFT CAUDA EPID	0.3032	0.054		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
THYMUS	0.2617	0.047						
ADRENAL GLANDS	0.0595	0.011						
PITUITARY	0.0197	0.004						
FINAL BODY WT(G)	558.							

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74816-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.90	0.371		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.26	2.980		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.79	0.740		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.77	0.150		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.84	0.359		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.15	0.225		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.68	0.328		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.62	0.316		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.65	0.127		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.62	0.121					
RIGHT CAUDA EPID	0.3012	0.059					
LEFT CAUDA EPID	0.2822	0.055					
THYMUS	0.2056	0.040					
ADRENAL GLANDS	0.0527	0.010					
PITUITARY	0.0152	0.003					
FINAL BODY WT(G)	512.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74819-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	PITUITARY	GROSS: PALE				
BRAIN	2.26	0.427	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED				P
LIVER	20.73	3.919		NO CORRELATE TO GROSS PALLOR				
KIDNEYS	4.06	0.767	NO SIGNIFICANT					
SPLEEN	0.89	0.168	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.80	0.529		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.41	0.267		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	2.18	0.412		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	2.12	0.401		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.90	0.170		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
LEFT EPIDIDYMIS	0.81	0.153		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
RIGHT CAUDA EPID	0.4163	0.079		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
LEFT CAUDA EPID	0.3150	0.060		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
THYMUS	0.1650	0.031		RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0590	0.011		MICRO:PITUITARY				
PITUITARY	0.0130	0.002						
FINAL BODY WT(G)	529.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74819-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74823-01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.10	0.451		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.01	3.221		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.45	0.740		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.80	0.172		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.34	0.502		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.19	0.255		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.382		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.81	0.388		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.79	0.170		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.76	0.163					
RIGHT CAUDA EPID	0.3002	0.064					
LEFT CAUDA EPID	0.3889	0.083					
THYMUS	0.2094	0.045					
ADRENAL GLANDS	0.0605	0.013					
PITUITARY	0.0140	0.003					
FINAL BODY WT(G)	466.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74824-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.						
BRAIN	1.95	0.411	LUNGS	GROSS: AREA(S), DARK RED				P
LIVER	17.18	3.617	LUNGS	MICRO: MACROPHAGES, ALVEOLAR				1
KIDNEYS	3.79	0.798						
SPLEEN	0.71	0.149						1
SEM VES/CG/FLUID	2.53	0.533						
PROSTATE	1.38	0.291	RIGHT TESTIS	GROSS: SMALL				P
RIGHT TESTIS	0.64	0.135	RIGHT TESTIS	MICRO: DEGENERATION, SEMINIFEROUS TUBULES				4
LEFT TESTIS	0.91	0.192						
RIGHT EPIDIDYMIS	0.44	0.093	LEFT TESTIS	GROSS: SMALL				P
LEFT EPIDIDYMIS	0.50	0.105	LEFT EPIDIDYMIS	GROSS: SMALL				P
RIGHT CAUDA EPID	0.1980	0.042	RIGHT EPIDIDYMIS	GROSS: SMALL				P
LEFT CAUDA EPID	0.1748	0.037	RIGHT EPIDIDYMIS	MICRO: HYOSPERMIA				4
THYMUS	0.3276	0.069						
ADRENAL GLANDS	0.0574	0.012						2
PITUITARY	0.0130	0.003						
FINAL BODY WT(G)	475.							
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
				NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74835-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.97	0.360		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.61	3.402		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.38	0.618		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.83	0.152		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.88	0.344		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.88	0.161		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.62	0.296		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.68	0.307		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.126		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.137					
RIGHT CAUDA EPID	0.2988	0.055					
LEFT CAUDA EPID	0.3788	0.069					
THYMUS	0.2454	0.045					
ADRENAL GLANDS	0.0412	0.008					
PITUITARY	0.0138	0.003					
FINAL BODY WT(G)	547.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74838-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.472		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.53	3.361		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.17	0.686		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.82	0.177		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.63	0.569		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.23	0.266		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.55	0.335		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.61	0.348		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.68	0.147		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.147					
RIGHT CAUDA EPID	0.3255	0.070					
LEFT CAUDA EPID	0.2896	0.063					
THYMUS	0.1953	0.042					
ADRENAL GLANDS	0.0636	0.014					
PITUITARY	0.0170	0.004					
FINAL BODY WT(G)	462.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74839-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), DARK RED				P
BRAIN	2.12	0.402		FEW, IRREGULARLY SHAPED, ALL LOBES				
LIVER	16.56	3.136	LUNGS	MICRO: HEMORRHAGE				1
KIDNEYS	4.04	0.765		CORRELATES TO GROSS RED AREA				
SPLEEN	0.82	0.155	NO SIGNIFICANT					
SEM VES/CG/FLUID	2.03	0.384	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	1.18	0.223		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.66	0.314		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.65	0.313		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
RIGHT EPIDIDYMIS	0.76	0.144		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
LEFT EPIDIDYMIS	0.70	0.133		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
RIGHT CAUDA EPID	0.3607	0.068		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
LEFT CAUDA EPID	0.3351	0.063		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
THYMUS	0.2056	0.039		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
ADRENAL GLANDS	0.0622	0.012		RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0166	0.003						
FINAL BODY WT(G)	528.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74839-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74846-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.27	0.391		BILATERAL					P
LIVER	18.01	3.100	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.92	0.675		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.82	0.141	NO SIGNIFICANT						
SEM VES/CG/FLUID	2.87	0.494	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	0.93	0.160		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.79	0.308		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.80	0.310		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.71	0.122		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.75	0.129		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.3273	0.056		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3824	0.066		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.2688	0.046		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0646	0.011		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0189	0.003							
FINAL BODY WT(G)	581.								

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 62

ANIMAL NO.74846-03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74856-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.98	0.452		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.66	3.575		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.18	0.726		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.80	0.183		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.58	0.589		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.02	0.233		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.63	0.372		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.65	0.377		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.158		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.162					
RIGHT CAUDA EPID	0.3102	0.071					
LEFT CAUDA EPID	0.3506	0.080					
THYMUS	0.2454	0.056					
ADRENAL GLANDS	0.0579	0.013					
PITUITARY	0.0133	0.003					
FINAL BODY WT(G)	438.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74859-06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	1.95	0.444		ZONA FASCICULATA					1
LIVER	16.89	3.847	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	2.88	0.656		BASOPHILIC TUBULES					1
SPLEEN	0.70	0.159	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
SEM VES/CG/FLUID	2.50	0.569	NO SIGNIFICANT						
PROSTATE	1.10	0.251	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.51	0.344		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.56	0.355		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.60	0.137		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.61	0.139		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.2765	0.063		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3230	0.074		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.1881	0.043		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0600	0.014		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0144	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	439.			MICRO:ADRENAL MEDULLA	BRAIN	LIVER	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74861-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.13	0.453	KIDNEYS	GROSS: DILATED PELVIS					1
LIVER	13.70	2.915	KIDNEYS	BILATERAL					
KIDNEYS	3.18	0.677		MICRO: INFLAMMATION, SUBACUTE					1
SPLEEN	0.67	0.143		HYDRONEPHROSIS					2
SEM VES/CG/FLUID	1.88	0.400	URINARY BLADDER	CORRELATES TO GROSS DILATED PELVIS					
PROSTATE	0.39	0.083	URINARY BLADDER	GROSS: CONTENTS, RED FLUID					P
RIGHT TESTIS	1.43	0.304		MICRO: NO SIGNIFICANT CHANGES OBSERVED					
LEFT TESTIS	1.47	0.313		NO CORRELATE TO GROSS RED CONTENTS					
RIGHT EPIDIDYMIS	0.65	0.138	NO SIGNIFICANT						
LEFT EPIDIDYMIS	0.62	0.132	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT CAUDA EPID	0.2719	0.058		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT CAUDA EPID	0.2971	0.063		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
THYMUS	0.3678	0.078		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
ADRENAL GLANDS	0.0508	0.011		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
PITUITARY	0.0119	0.003		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
FINAL BODY WT(G)	470.			STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					
				MICRO:URINARY BLADDER					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74863-05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.18	0.391		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.21	3.801		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.88	0.695		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.79	0.142		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.30	0.412		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.26	0.226		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.87	0.335		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.98	0.355		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.85	0.152		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.94	0.168					
RIGHT CAUDA EPID	0.4122	0.074					
LEFT CAUDA EPID	0.4276	0.077					
THYMUS	0.2000	0.036					
ADRENAL GLANDS	0.0759	0.014					
PITUITARY	0.0149	0.003					
FINAL BODY WT(G)	558.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74863-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.13	0.382		BILATERAL					P
LIVER	22.63	4.063	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	3.71	0.666		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.75	0.135	NO SIGNIFICANT						
SEM VES/CG/FLUID	2.38	0.427	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	1.66	0.298		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.86	0.334		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.87	0.336		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.85	0.153		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.82	0.147		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.3910	0.070		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3981	0.071		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.1243	0.022		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0681	0.012		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0167	0.003							
FINAL BODY WT(G)	557.								

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74863-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74869-02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.16	0.406		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.76	3.714		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.82	0.718		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.79	0.148		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.02	0.380		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.12	0.211		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.99	0.374		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	2.00	0.376		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.141		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.80	0.150					
RIGHT CAUDA EPID	0.3583	0.067					
LEFT CAUDA EPID	0.3968	0.075					
THYMUS	0.4233	0.080					
ADRENAL GLANDS	0.0655	0.012					
PITUITARY	0.0128	0.002					
FINAL BODY WT(G)	532.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74738-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED					
BRAIN	2.14	0.429		FEW, IRREGULARLY SHAPED, IN CORTEX, BILATERAL					P
LIVER	19.10	3.828	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.22	0.645		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
SPLEEN	0.79	0.158		BASOPHILIC TUBULES					1
SEM VES/CG/FLUID	1.89	0.379		DILATATION, TUBULAR					1
PROSTATE	0.71	0.142	NO SIGNIFICANT						
RIGHT TESTIS	1.61	0.323	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.55	0.311		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.66	0.132		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.66	0.132		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
RIGHT CAUDA EPID	0.2892	0.058		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
LEFT CAUDA EPID	0.3233	0.065		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
THYMUS	0.2153	0.043		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
ADRENAL GLANDS	0.0518	0.010		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
PITUITARY	0.0138	0.003		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
FINAL BODY WT(G)	499.			RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74739-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.05	0.416		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.95	3.438		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.45	0.700		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.150		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.48	0.503		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.05	0.213		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.74	0.353		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.83	0.371		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.66	0.134		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.81	0.164					
RIGHT CAUDA EPID	0.3347	0.068					
LEFT CAUDA EPID	0.3661	0.074					
THYMUS	0.2694	0.055					
ADRENAL GLANDS	0.0644	0.013					
PITUITARY	0.0195	0.004					
FINAL BODY WT(G)	493.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74743-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), WHITE				P
BRAIN	2.04	0.423		FEW, IRREGULARLY SHAPED, LEFT LOBE				
LIVER	16.59	3.442	LUNGS	MICRO: INFILTRATE, MONONUCLEAR, SUBPLEURAL				1
KIDNEYS	3.20	0.664		CORRELATES TO GROSS WHITE AREA				
SPLEEN	0.83	0.172	NO SIGNIFICANT					
SEM VES/CG/FLUID	1.43	0.297	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	0.95	0.197		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.66	0.344		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.72	0.357		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
RIGHT EPIDIDYMIS	0.73	0.151		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
LEFT EPIDIDYMIS	0.59	0.122		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
RIGHT CAUDA EPID	0.2824	0.059		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
LEFT CAUDA EPID	0.2556	0.053		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
THYMUS	0.1553	0.032		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
ADRENAL GLANDS	0.0462	0.010		RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0138	0.003						
FINAL BODY WT(G)	482.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74743-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74744-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.16	0.529		BILATERAL					P
LIVER	17.89	4.385	LYMPH NODE, MAND	MICRO: HEMORRHAGE					3
KIDNEYS	2.92	0.716		CORRELATES TO GROSS RED DISCOLORATION					
SPLEEN	0.72	0.176	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
SEM VES/CG/FLUID	1.95	0.478	THYMUS	MICRO: HEMORRHAGE					2
PROSTATE	0.88	0.216	RIGHT TESTIS	MICRO: DEGENERATION, SEMINIFEROUS TUBULES					1
RIGHT TESTIS	1.27	0.311		VACUOLATION					
LEFT TESTIS	1.28	0.314	RIGHT EPIDIDYMIS	MICRO: CELLULAR DEBRIS					1
RIGHT EPIDIDYMIS	0.51	0.125	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
LEFT EPIDIDYMIS	0.57	0.140		ONE COAGULATING GLAND EXAMINED; OTHER NOT PRESENT AT TRIMMING					
RIGHT CAUDA EPID	0.2139	0.052	NO SIGNIFICANT						
LEFT CAUDA EPID	0.2692	0.066	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
THYMUS	0.1950	0.048		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0574	0.014		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0113	0.003		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
FINAL BODY WT(G)	408.			MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
				PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS		
				LIVER	PITUITARY	SPLEEN	SEMINAL VESICLES		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74748-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.99	0.434		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.46	3.368		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.73	0.595		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.170		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.39	0.303		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.02	0.222		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.52	0.331		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.59	0.346		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.67	0.146		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.65	0.142					
RIGHT CAUDA EPID	0.2797	0.061					
LEFT CAUDA EPID	0.3022	0.066					
THYMUS	0.2504	0.055					
ADRENAL GLANDS	0.0536	0.012					
PITUITARY	0.0137	0.003					
FINAL BODY WT(G)	459.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74748-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.89	0.478		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	12.64	3.200		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.23	0.565		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.175		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.39	0.605		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.89	0.225		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.59	0.403		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.59	0.403		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.175		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.172					
RIGHT CAUDA EPID	0.3202	0.081					
LEFT CAUDA EPID	0.3152	0.080					
THYMUS	0.1543	0.039					
ADRENAL GLANDS	0.0503	0.013					
PITUITARY	0.0111	0.003					
FINAL BODY WT(G)	395.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74752-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
BRAIN	1.97	0.373		ONE, IRREGULARLY SHAPED, IN CORTEX, LEFT				
LIVER	17.85	3.381	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
KIDNEYS	3.30	0.625		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA				
SPLEEN	0.82	0.155	NO SIGNIFICANT					
SEM VES/CG/FLUID	1.96	0.371	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	1.34	0.254		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.71	0.324		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.65	0.313		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
RIGHT EPIDIDYMIS	0.68	0.129		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
LEFT EPIDIDYMIS	0.67	0.127		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
RIGHT CAUDA EPID	0.3099	0.059		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
LEFT CAUDA EPID	0.3046	0.058		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
THYMUS	0.2124	0.040		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
ADRENAL GLANDS	0.0506	0.010		RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0159	0.003		MICRO:KIDNEYS				
FINAL BODY WT(G)	528.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74752-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74766-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.12	0.423		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.40	3.074		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.08	0.615		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.89	0.178		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.94	0.387		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.35	0.269		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.79	0.357		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.85	0.369		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.140		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.75	0.150					
RIGHT CAUDA EPID	0.2941	0.059					
LEFT CAUDA EPID	0.3325	0.066					
THYMUS	0.4197	0.084					
ADRENAL GLANDS	0.0541	0.011					
PITUITARY	0.0143	0.003					
FINAL BODY WT(G)	501.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74780-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.14	0.366	KIDNEYS	GROSS: AREA(S), DEPRESSED					P
LIVER	19.72	3.371	KIDNEYS	FEW, 1 TO 2 MM IN DIAMETER, IN CORTEX, BILATERAL					
KIDNEYS	4.09	0.699		GROSS: DILATED PELVIS					3
SPLEEN	0.93	0.159	KIDNEYS	RIGHT					
SEM VES/CG/FLUID	2.03	0.347		MICRO: INFLAMMATION, SUBACUTE					1
PROSTATE	0.69	0.118		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA					
RIGHT TESTIS	1.80	0.308		BASOPHILIC TUBULES					1
LEFT TESTIS	1.77	0.303		HYDRONEPHROSIS					2
RIGHT EPIDIDYMIS	0.71	0.121	TEETH	CORRELATES TO GROSS DILATED PELVIS					
LEFT EPIDIDYMIS	0.64	0.109		GROSS: MALALIGNED					P
RIGHT CAUDA EPID	0.2149	0.037	NO SIGNIFICANT	UPPER INCISOR, BILATERAL; LOWER INCISOR, BILATERAL					
LEFT CAUDA EPID	0.2539	0.043	CHANGES OBSERVED						
THYMUS	0.2475	0.042		GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
ADRENAL GLANDS	0.0622	0.011		CECUM	COLON	DUODENUM	ESOPHAGUS		
PITUITARY	0.0185	0.003		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
FINAL BODY WT(G)	585.			LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
				NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
				PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
				SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74791-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.96	0.436		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.32	3.627		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.05	0.678		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.65	0.144		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.86	0.636		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.26	0.280		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.55	0.344		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.56	0.347		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.73	0.162		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.65	0.144					
RIGHT CAUDA EPID	0.2924	0.065					
LEFT CAUDA EPID	0.3013	0.067					
THYMUS	0.1491	0.033					
ADRENAL GLANDS	0.0498	0.011					
PITUITARY	0.0144	0.003					
FINAL BODY WT(G)	450.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74791-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.92	0.386		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.77	3.568		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.37	0.677		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.71	0.143		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.25	0.452		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.32	0.265		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.58	0.317		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.50	0.301		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.141		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.68	0.137					
RIGHT CAUDA EPID	0.3327	0.067					
LEFT CAUDA EPID	0.3005	0.060					
THYMUS	0.2931	0.059					
ADRENAL GLANDS	0.0495	0.010					
PITUITARY	0.0141	0.003					
FINAL BODY WT(G)	498.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74793-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.11	0.437		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.26	3.159		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.84	0.795		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.83	0.172		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.21	0.458		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.75	0.155		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.82	0.377		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.79	0.371		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.72	0.149		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.72	0.149					
RIGHT CAUDA EPID	0.3200	0.066					
LEFT CAUDA EPID	0.3158	0.065					
THYMUS	0.2285	0.047					
ADRENAL GLANDS	0.0611	0.013					
PITUITARY	0.0144	0.003					
FINAL BODY WT(G)	483.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74795-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.15	0.403	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	18.70	3.508	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.28	0.615		NECROSIS					1
SPLEEN	0.73	0.137		FOCAL					
SEM VES/CG/FLUID	2.95	0.553		HYPERPLASIA					1
PROSTATE	1.09	0.205		FOCAL					
RIGHT TESTIS	1.84	0.345	NO SIGNIFICANT						
LEFT TESTIS	1.81	0.340	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT EPIDIDYMIS	0.70	0.131		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT EPIDIDYMIS	0.72	0.135		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT CAUDA EPID	0.3550	0.067		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT CAUDA EPID	0.3915	0.073		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
THYMUS	0.2639	0.050		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
ADRENAL GLANDS	0.0612	0.011		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
PITUITARY	0.0200	0.004		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
FINAL BODY WT(G)	533.			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74799-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.06	0.376		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.74	3.237		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.04	0.737		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.78	0.142		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.50	0.456		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.35	0.246		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.81	0.330		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.81	0.330		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.73	0.133		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.62	0.113					
RIGHT CAUDA EPID	0.3414	0.062					
LEFT CAUDA EPID	0.2919	0.053					
THYMUS	0.2466	0.045					
ADRENAL GLANDS	0.0579	0.011					
PITUITARY	0.0158	0.003					
FINAL BODY WT(G)	548.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74801-10 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.17	0.431		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.58	3.495		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.90	0.775		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	1.01	0.201		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.33	0.463		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.42	0.282		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.95	0.388		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.85	0.368		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.79	0.157		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.155					
RIGHT CAUDA EPID	0.3735	0.074					
LEFT CAUDA EPID	0.3541	0.070					
THYMUS	0.2022	0.040					
ADRENAL GLANDS	0.0777	0.015					
PITUITARY	0.0155	0.003					
FINAL BODY WT(G)	503.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74806-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.22	0.416		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.85	3.717		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.14	0.588		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.95	0.178		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.05	0.384		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.38	0.258		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.62	0.303		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.59	0.298		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.66	0.124		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.74	0.139					
RIGHT CAUDA EPID	0.3031	0.057					
LEFT CAUDA EPID	0.3503	0.066					
THYMUS	0.2732	0.051					
ADRENAL GLANDS	0.0628	0.012					
PITUITARY	0.0177	0.003					
FINAL BODY WT(G)	534.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74806-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL CORTEX	MICRO: VACUOLATION, CYTOPLASMIC					
BRAIN	1.95	0.356		ZONA FASCICULATA					1
LIVER	15.91	2.903	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.29	0.600		BASOPHILIC TUBULES					1
SPLEEN	0.82	0.150	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SEM VES/CG/FLUID	2.26	0.412	THYMUS	MICRO: HEMORRHAGE					1
PROSTATE	1.31	0.239	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
RIGHT TESTIS	1.75	0.319		BOTH COAGULATING GLANDS PRESENT					
LEFT TESTIS	1.71	0.312	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.71	0.130	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.72	0.131		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2449	0.045		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.3665	0.067		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.2175	0.040		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0572	0.010		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0116	0.002		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
FINAL BODY WT(G)	548.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL MEDULLA	BRAIN	PITUITARY	PROSTATE		
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74820-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
BRAIN	2.06	0.386		FEW, 1 MM IN DIAMETER, IN CORTEX, BILATERAL				
LIVER	16.57	3.109	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
KIDNEYS	3.40	0.638		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA				
SPLEEN	0.68	0.128	NO SIGNIFICANT					
SEM VES/CG/FLUID	2.20	0.413	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	0.91	0.171		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.89	0.355		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.86	0.349		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
RIGHT EPIDIDYMIS	0.84	0.158		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
LEFT EPIDIDYMIS	0.67	0.126		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
RIGHT CAUDA EPID	0.3554	0.067		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
LEFT CAUDA EPID	0.3378	0.063		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
THYMUS	0.2598	0.049		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
ADRENAL GLANDS	0.0506	0.009		RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0122	0.002		MICRO:KIDNEYS				
FINAL BODY WT(G)	533.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74820-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74821-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: MECHANICAL TRAUMA				P
BRAIN	2.13	0.433		DISTAL TAIL BROKEN				
LIVER	18.08	3.675	NO SIGNIFICANT					
KIDNEYS	3.81	0.774	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.76	0.154		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.57	0.522		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	1.24	0.252		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.81	0.368		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.84	0.374		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.67	0.136		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT EPIDIDYMIS	0.70	0.142		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
RIGHT CAUDA EPID	0.3136	0.064		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
LEFT CAUDA EPID	0.3557	0.072		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
THYMUS	0.2388	0.049						
ADRENAL GLANDS	0.0744	0.015						
PITUITARY	0.0195	0.004						
FINAL BODY WT(G)	492.							

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74830-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	1.96	0.375		BASOPHILIC TUBULES					1
LIVER	16.70	3.193	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.60	0.688		NECROSIS, HEPATOCELLULAR					1
SPLEEN	0.82	0.157		FOCAL					
SEM VES/CG/FLUID	2.23	0.426	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
PROSTATE	1.20	0.229	THYMUS	MICRO: HEMORRHAGE					1
RIGHT TESTIS	1.86	0.356	NO SIGNIFICANT						
LEFT TESTIS	1.89	0.361	CHANGES OBSERVED						
RIGHT EPIDIDYMIS	0.75	0.143	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT EPIDIDYMIS	0.77	0.147	CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT CAUDA EPID	0.3337	0.064	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT CAUDA EPID	0.3498	0.067	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
THYMUS	0.2919	0.056	MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
ADRENAL GLANDS	0.0553	0.011	PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
PITUITARY	0.0160	0.003	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
FINAL BODY WT(G)	523.		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
			SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS			
			COAGULATING GL						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74831-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: ENLARGED				P
BRAIN	2.13	0.408		BILATERAL				
LIVER	17.53	3.358	LYMPH NODE, MAND	MICRO: HEMORRHAGE				1
KIDNEYS	3.73	0.715		NO CORRELATE TO GROSS ENLARGEMENT				
SPLEEN	1.02	0.195	NO SIGNIFICANT					
SEM VES/CG/FLUID	2.77	0.531	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	0.81	0.155		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.79	0.343		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.81	0.347		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT EPIDIDYMIS	0.74	0.142		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT EPIDIDYMIS	0.75	0.144		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT CAUDA EPID	0.3546	0.068		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT CAUDA EPID	0.3952	0.076		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
THYMUS	0.1964	0.038		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
ADRENAL GLANDS	0.0532	0.010		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
PITUITARY	0.0159	0.003						
FINAL BODY WT(G)	522.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74831-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74834-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.48	0.405		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	23.36	3.817		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.24	0.693		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.88	0.144		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.75	0.286		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.52	0.248		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.291		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.75	0.286		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.70	0.114		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.73	0.119					
RIGHT CAUDA EPID	0.3078	0.050					
LEFT CAUDA EPID	0.3112	0.051					
THYMUS	0.2763	0.045					
ADRENAL GLANDS	0.0796	0.013					
PITUITARY	0.0204	0.003					
FINAL BODY WT(G)	612.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74847-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE						
BRAIN	1.94	0.346	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1	
LIVER	19.15	3.420		NECROSIS, HEPATOCELLULAR					1	
KIDNEYS	3.54	0.632	NO SIGNIFICANT							
SPLEEN	0.76	0.136	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
SEM VES/CG/FLUID	2.36	0.421		CECUM	COLON	DUODENUM	ESOPHAGUS			
PROSTATE	1.28	0.229		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
RIGHT TESTIS	1.73	0.309		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
LEFT TESTIS	1.76	0.314		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
RIGHT EPIDIDYMIS	0.68	0.121		PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
LEFT EPIDIDYMIS	0.63	0.113		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
RIGHT CAUDA EPID	0.2396	0.043		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
LEFT CAUDA EPID	0.2644	0.047		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
THYMUS	0.2326	0.042		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
ADRENAL GLANDS	0.0446	0.008		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY			
PITUITARY	0.0141	0.003		PROSTATE	SPLEEN	SEMINAL VESICLES	THYMUS			
FINAL BODY WT(G)	560.			RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74848-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: ORGAN DAMAGED AT NECROPSY					
BRAIN	2.00	0.332		PITUITARY					P
LIVER	23.65	3.922	KIDNEYS	GROSS: DILATED PELVIS					1
KIDNEYS	3.80	0.630		RIGHT					
SPLEEN	0.86	0.143	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
SEM VES/CG/FLUID	2.16	0.358		HYDRONEPHROSIS					2
PROSTATE	1.16	0.192		CORRELATES TO GROSS DILATED PELVIS					
RIGHT TESTIS	1.85	0.307	NO SIGNIFICANT						
LEFT TESTIS	1.85	0.307	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT EPIDIDYMIS	0.72	0.119		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT EPIDIDYMIS	0.66	0.109		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT CAUDA EPID	0.3565	0.059		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND		
LEFT CAUDA EPID	0.3088	0.051		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
THYMUS	0.2083	0.035		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
ADRENAL GLANDS	0.0561	0.009		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
PITUITARY	0.0157	0.003		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
FINAL BODY WT(G)	603.			URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74849-03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.13	0.378		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	23.32	4.142		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.72	0.661		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.85	0.151		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.27	0.403		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.93	0.165		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.66	0.295		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.69	0.300		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.75	0.133		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.69	0.123					
RIGHT CAUDA EPID	0.3338	0.059					
LEFT CAUDA EPID	0.3069	0.055					
THYMUS	0.1835	0.033					
ADRENAL GLANDS	0.0503	0.009					
PITUITARY	0.0113	0.002					
FINAL BODY WT(G)	563.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74850-05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.95	0.421		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.04	3.464		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.06	0.661		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.160		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.26	0.488		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.20	0.259		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.47	0.317		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.41	0.305		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.67	0.145		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.61	0.132					
RIGHT CAUDA EPID	0.3020	0.065					
LEFT CAUDA EPID	0.2919	0.063					
THYMUS	0.1742	0.038					
ADRENAL GLANDS	0.0383	0.008					
PITUITARY	0.0100	0.002					
FINAL BODY WT(G)	463.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74855-08 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.05	0.375	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	18.66	3.411	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
KIDNEYS	3.55	0.649	COAGULATING GL	MICRO: NO SIGNIFICANT CHANGES OBSERVED					1
SPLEEN	0.96	0.176		ONE COAGULATING GLAND EXAMINED; OTHER NOT PRESENT AT TRIMMING					
SEM VES/CG/FLUID	2.35	0.430	NO SIGNIFICANT						
PROSTATE	1.54	0.282	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT TESTIS	1.78	0.325		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT TESTIS	1.78	0.325		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT EPIDIDYMIS	0.77	0.141		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT EPIDIDYMIS	0.70	0.128		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT CAUDA EPID	0.3284	0.060		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT CAUDA EPID	0.3323	0.061		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
THYMUS	0.2090	0.038		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
ADRENAL GLANDS	0.0681	0.012		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
PITUITARY	0.0187	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	547.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
				SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS		
				RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74858-04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					
BRAIN	2.10	0.393		BILATERAL					P
LIVER	18.01	3.373	LYMPH NODE, MAND	GROSS: ENLARGED					P
KIDNEYS	3.71	0.695		BILATERAL					
SPLEEN	0.81	0.152	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
SEM VES/CG/FLUID	2.56	0.479		CORRELATES TO GROSS RED DISCOLORATION					
PROSTATE	1.01	0.189		PLASMACYTOSIS, MEDULLARY					2
RIGHT TESTIS	1.67	0.313		CORRELATES TO GROSS ENLARGEMENT					
LEFT TESTIS	1.62	0.303	NO SIGNIFICANT						
RIGHT EPIDIDYMIS	0.62	0.116	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT EPIDIDYMIS	0.65	0.122		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT CAUDA EPID	0.2306	0.043		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT CAUDA EPID	0.2715	0.051		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
THYMUS	0.1553	0.029		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
ADRENAL GLANDS	0.0581	0.011		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
PITUITARY	0.0150	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
FINAL BODY WT(G)	534.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74868-02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	1.86	0.459		DILATATION, TUBULAR				1
LIVER	11.65	2.877	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	2.48	0.612	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SPLEEN	0.71	0.175	THYMUS	MICRO: HEMORRHAGE				1
SEM VES/CG/FLUID	2.19	0.541	NO SIGNIFICANT					
PROSTATE	0.97	0.240	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.46	0.360		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.41	0.348		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.52	0.128		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.62	0.153		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.2618	0.065		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.2997	0.074		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.2759	0.068		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0560	0.014		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0141	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	405.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74871-06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.13	0.438		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	16.82	3.461		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.76	0.774		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.74	0.152		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.78	0.572		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.57	0.323		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.65	0.340		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.60	0.329		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.71	0.146		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.70	0.144					
RIGHT CAUDA EPID	0.2737	0.056					
LEFT CAUDA EPID	0.2910	0.060					
THYMUS	0.1813	0.037					
ADRENAL GLANDS	0.0638	0.013					
PITUITARY	0.0177	0.004					
FINAL BODY WT(G)	486.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74747-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.89	0.363		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.03	3.467		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.45	0.663		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.67	0.129		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.27	0.437		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.93	0.179		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.58	0.304		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.59	0.306		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.61	0.117		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.61	0.117					
RIGHT CAUDA EPID	0.2857	0.055					
LEFT CAUDA EPID	0.2965	0.057					
THYMUS	0.1926	0.037					
ADRENAL GLANDS	0.0439	0.008					
PITUITARY	0.0127	0.002					
FINAL BODY WT(G)	520.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74747-03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.16	0.380		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.81	3.306		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.55	0.624		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.82	0.144		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.79	0.490		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.68	0.120		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.38	0.243		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.41	0.248		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.71	0.125		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.125					
RIGHT CAUDA EPID	0.2445	0.043					
LEFT CAUDA EPID	0.2928	0.051					
THYMUS	0.2517	0.044					
ADRENAL GLANDS	0.0669	0.012					
PITUITARY	0.0165	0.003					
FINAL BODY WT(G)	569.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74751-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	BRAIN	MICRO: INFILTRATE, MONONUCLEAR					
BRAIN	2.16	0.395		MENINGES BENEATH THIRD VENTRICLE					1
LIVER	17.67	3.230	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	3.26	0.596		BASOPHILIC TUBULES					1
SPLEEN	0.77	0.141		DILATATION, TUBULAR					1
SEM VES/CG/FLUID	2.24	0.410	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
PROSTATE	1.31	0.239	THYMUS	MICRO: HEMORRHAGE					1
RIGHT TESTIS	1.82	0.333	NO SIGNIFICANT						
LEFT TESTIS	1.82	0.333	CHANGES OBSERVED						
RIGHT EPIDIDYMIS	0.81	0.148	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN			
LEFT EPIDIDYMIS	0.83	0.152	CECUM	COLON	DUODENUM	ESOPHAGUS			
RIGHT CAUDA EPID	0.3346	0.061	EYES/OPTIC N.	HEART	ILEUM	JEJUNUM			
LEFT CAUDA EPID	0.3692	0.067	KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS			
THYMUS	0.1753	0.032	MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS			
ADRENAL GLANDS	0.0770	0.014	PITUITARY	PROSTATE	RECTUM	SPINAL CORD			
PITUITARY	0.0209	0.004	SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN			
FINAL BODY WT(G)	547.		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS			
			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS			
			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL				
			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	PITUITARY	PROSTATE			
			SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS			
			COAGULATING GL						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74751-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.404		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	17.99	3.480		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.36	0.650		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.77	0.149		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.18	0.422		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.20	0.232		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.94	0.375		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.97	0.381		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.82	0.159		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.80	0.155					
RIGHT CAUDA EPID	0.4274	0.083					
LEFT CAUDA EPID	0.4055	0.078					
THYMUS	0.2262	0.044					
ADRENAL GLANDS	0.0674	0.013					
PITUITARY	0.0145	0.003					
FINAL BODY WT(G)	517.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74754-09 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.08	0.454		BASOPHILIC TUBULES				1
LIVER	13.31	2.906	PITUITARY	MICRO: CYST, PARS DISTALIS				1
KIDNEYS	3.26	0.712	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				2
SPLEEN	0.69	0.151	THYMUS	MICRO: HEMORRHAGE				2
SEM VES/CG/FLUID	2.57	0.561	NO SIGNIFICANT					
PROSTATE	1.03	0.225	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.87	0.408		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.83	0.400		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.69	0.151		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT EPIDIDYMIS	0.67	0.146		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT CAUDA EPID	0.3530	0.077		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT CAUDA EPID	0.2750	0.060		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
THYMUS	0.1918	0.042		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
ADRENAL GLANDS	0.0623	0.014		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
PITUITARY	0.0127	0.003		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	458.			MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74755-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES					
BRAIN	2.08	0.369	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	19.30	3.422	PROSTATE	MICRO: INFLAMMATION, SUBACUTE					1
KIDNEYS	4.11	0.729	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.78	0.138	NO SIGNIFICANT						
SEM VES/CG/FLUID	3.23	0.573	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	1.62	0.287		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.87	0.332		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.91	0.339		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.81	0.144		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.74	0.131		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.3412	0.060		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.3710	0.066		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.2132	0.038		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0759	0.013		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0172	0.003		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
FINAL BODY WT(G)	564.			SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 110

ANIMAL NO.74768-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.28	0.394		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	18.85	3.261		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.55	0.614		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.72	0.125		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.33	0.403		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.17	0.202		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.78	0.308		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.77	0.306		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.76	0.131		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.66	0.114					
RIGHT CAUDA EPID	0.3164	0.055					
LEFT CAUDA EPID	0.2665	0.046					
THYMUS	0.1577	0.027					
ADRENAL GLANDS	0.0453	0.008					
PITUITARY	0.0153	0.003					
FINAL BODY WT(G)	578.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74769-07 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.02	0.439		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	14.91	3.241		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.53	0.767		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.72	0.157		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.28	0.496		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.02	0.222		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.81	0.393		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.78	0.387		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.73	0.159		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.78	0.170					
RIGHT CAUDA EPID	0.3369	0.073					
LEFT CAUDA EPID	0.3615	0.079					
THYMUS	0.1845	0.040					
ADRENAL GLANDS	0.0510	0.011					
PITUITARY	0.0131	0.003					
FINAL BODY WT(G)	460.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74770-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.335		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	22.34	3.586		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.14	0.665		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.80	0.128		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.13	0.342		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.01	0.162		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.68	0.270		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.76	0.283		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.74	0.119		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.77	0.124					
RIGHT CAUDA EPID	0.3483	0.056					
LEFT CAUDA EPID	0.3578	0.057					
THYMUS	0.2594	0.042					
ADRENAL GLANDS	0.0504	0.008					
PITUITARY	0.0170	0.003					
FINAL BODY WT(G)	623.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74786-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.02	0.314	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	22.78	3.537	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
KIDNEYS	4.11	0.638	THYMUS	MICRO: HEMORRHAGE					2
SPLEEN	1.01	0.157	NO SIGNIFICANT						
SEM VES/CG/FLUID	1.97	0.306	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PROSTATE	1.50	0.233		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT TESTIS	1.84	0.286		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT TESTIS	1.88	0.292		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT EPIDIDYMIS	0.68	0.106		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT EPIDIDYMIS	0.74	0.115		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT CAUDA EPID	0.2970	0.046		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT CAUDA EPID	0.2799	0.043		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
THYMUS	0.3656	0.057		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
ADRENAL GLANDS	0.0593	0.009		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
PITUITARY	0.0170	0.003		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
FINAL BODY WT(G)	644.			SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS		
				COAGULATING GL					

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74786-07 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	LIVER	MICRO: INFILTRATE, MONONUCLEAR				
BRAIN	1.86	0.388	THYMUS	MICRO: HEMORRHAGE				1
LIVER	14.47	3.015	NO SIGNIFICANT					1
KIDNEYS	3.49	0.727	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.76	0.158		CECUM	COLON	DUODENUM	ESOPHAGUS	
SEM VES/CG/FLUID	2.32	0.483		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PROSTATE	1.76	0.367		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT TESTIS	1.81	0.377		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT TESTIS	1.74	0.363		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT EPIDIDYMIS	0.79	0.165		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT EPIDIDYMIS	0.76	0.158		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
RIGHT CAUDA EPID	0.2966	0.062		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
LEFT CAUDA EPID	0.3518	0.073		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
THYMUS	0.2431	0.051		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
ADRENAL GLANDS	0.0493	0.010		PITUITARY	PROSTATE	SPLEEN	SEMINAL VESICLES	
PITUITARY	0.0144	0.003		RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		
FINAL BODY WT(G)	480.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74786-07 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74787-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
BRAIN	2.14	0.487		TWO, IRREGULARLY SHAPED, IN CORTEX, LEFT				
LIVER	16.05	3.656	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
KIDNEYS	3.53	0.804		NO HISTOLOGIC CORRELATE TO GROSS DEPRESSED AREA				
SPLEEN	0.82	0.187						
SEM VES/CG/FLUID	1.99	0.453	NO SIGNIFICANT					
PROSTATE	0.74	0.169	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
RIGHT TESTIS	1.62	0.369		CECUM	COLON	DUODENUM	ESOPHAGUS	
LEFT TESTIS	1.59	0.362		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT EPIDIDYMIS	0.63	0.144		LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
LEFT EPIDIDYMIS	0.64	0.146		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY	
RIGHT CAUDA EPID	0.2992	0.068		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND	
LEFT CAUDA EPID	0.3081	0.070		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
THYMUS	0.1375	0.031		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA	
ADRENAL GLANDS	0.0513	0.012		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS	
PITUITARY	0.0145	0.003		RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	439.			MICRO:KIDNEYS				

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74787-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74792-03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.99	0.361		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	19.29	3.501		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.62	0.657		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.85	0.154		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	1.50	0.272		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	0.86	0.156		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.73	0.314		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.73	0.314		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.66	0.120		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.71	0.129					
RIGHT CAUDA EPID	0.2910	0.053					
LEFT CAUDA EPID	0.2846	0.052					
THYMUS	0.1800	0.033					
ADRENAL GLANDS	0.0653	0.012					
PITUITARY	0.0139	0.003					
FINAL BODY WT(G)	551.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74807-05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	1.92	0.460		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	15.09	3.619		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	2.75	0.659		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	0.69	0.165		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.19	0.525		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.50	0.360		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.60	0.384		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.49	0.357		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.59	0.141		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.60	0.144					
RIGHT CAUDA EPID	0.2065	0.050					
LEFT CAUDA EPID	0.2597	0.062					
THYMUS	0.2403	0.058					
ADRENAL GLANDS	0.0535	0.013					
PITUITARY	0.0105	0.003					
FINAL BODY WT(G)	417.						

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74811-01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LUNGS	GROSS: AREA(S), DARK RED					P
BRAIN	2.08	0.357		FEW, 1 MM IN DIAMETER, ALL LOBES					
LIVER	22.35	3.840	LUNGS	MICRO: MACROPHAGES, ALVEOLAR					1
KIDNEYS	3.87	0.665		FOCAL; NO CORRELATE TO GROSS RED AREA					
SPLEEN	0.81	0.139		INFILTRATE, MONONUCLEAR, SUBPLEURAL					1
SEM VES/CG/FLUID	2.27	0.390		NO CORRELATE TO GROSS RED AREA					
PROSTATE	1.33	0.229	NO SIGNIFICANT						
RIGHT TESTIS	1.71	0.294	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
LEFT TESTIS	1.72	0.296		CECUM	COLON	DUODENUM	ESOPHAGUS		
RIGHT EPIDIDYMIS	0.65	0.112		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
LEFT EPIDIDYMIS	0.65	0.112		KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND		
RIGHT CAUDA EPID	0.2802	0.048		NERVE, SCIATIC	VAS DEFERENS	PANCREAS	PITUITARY		
LEFT CAUDA EPID	0.2994	0.051		PROSTATE	RECTUM	SPINAL CORD	SAL. GLAND MAND		
THYMUS	0.1841	0.032		STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN		
ADRENAL GLANDS	0.0547	0.009		SEMINAL VESICLES	THYROID GLANDS	THYMUS	TRACHEA		
PITUITARY	0.0187	0.003		URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	LEFT EPIDIDYMIS		
FINAL BODY WT(G)	582.			RIGHT EPIDIDYMIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74813-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	LIVER	MICRO: INFILTRATE, MONONUCLEAR					
BRAIN	2.03	0.406	THYMUS	MICRO: HEMORRHAGE					1
LIVER	17.32	3.464	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE					1
KIDNEYS	3.42	0.684	NO SIGNIFICANT						1
SPLEEN	0.69	0.138	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
SEM VES/CG/FLUID	1.89	0.378		CECUM	COLON	DUODENUM	ESOPHAGUS		
PROSTATE	1.27	0.254		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT TESTIS	1.73	0.346		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT TESTIS	1.74	0.348		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
RIGHT EPIDIDYMIS	0.65	0.130		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
LEFT EPIDIDYMIS	0.71	0.142		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
RIGHT CAUDA EPID	0.3062	0.061		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
LEFT CAUDA EPID	0.3771	0.075		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
THYMUS	0.1647	0.033		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
ADRENAL GLANDS	0.0591	0.012		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS		
PITUITARY	0.0147	0.003		PITUITARY	PROSTATE	SPLEEN	SEMINAL VESICLES		
FINAL BODY WT(G)	500.			RIGHT TESTIS	COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74817-04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	2.07	0.388		DILATATION, TUBULAR				1
LIVER	16.84	3.159		UNILATERAL; MEDULLA				2
KIDNEYS	3.43	0.644	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.78	0.146	PROSTATE	MICRO: INFLAMMATION, SUBACUTE				1
SEM VES/CG/FLUID	1.97	0.370	THYMUS	MICRO: HEMORRHAGE				1
PROSTATE	1.14	0.214	NO SIGNIFICANT					
RIGHT TESTIS	1.67	0.313	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.68	0.315		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.75	0.141		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.63	0.118		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.2981	0.056		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.2778	0.052		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.3329	0.062		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0523	0.010		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0156	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	533.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 123

ANIMAL NO.74822-15 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.08	0.499	KIDNEYS	MICRO: BASOPHILIC TUBULES					1
LIVER	17.11	4.103		DILATATION, TUBULAR					1
KIDNEYS	3.85	0.923	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
SPLEEN	0.76	0.182	PITUITARY	MICRO: ANGIECTASIS					1
SEM VES/CG/FLUID	2.75	0.659		PARS DISTALIS					
PROSTATE	1.30	0.312	THYMUS	GROSS: SMALL					P
RIGHT TESTIS	1.82	0.436	THYMUS	MICRO: DEPLETION, LYMPHOID					2
LEFT TESTIS	1.14	0.273		CORRELATES WITH GROSS SMALL SIZE					
RIGHT EPIDIDYMIS	0.45	0.108	RIGHT TESTIS	GROSS: SOFT					P
LEFT EPIDIDYMIS	0.34	0.082	RIGHT TESTIS	MICRO: DEGENERATION, SEMINIFEROUS TUBULES					4
RIGHT CAUDA EPID	0.2183	0.052		CORRELATES TO GROSS SOFTNESS					
LEFT CAUDA EPID	0.1621	0.039		GIANT CELL					3
THYMUS	0.0885	0.021		CORRELATES TO GROSS SOFTNESS					
ADRENAL GLANDS	0.0610	0.015		GRANULOMA, SPERM					2
PITUITARY	0.0165	0.004		FOCAL					
FINAL BODY WT(G)	417.		LEFT TESTIS	GROSS: SMALL					P
			LEFT TESTIS	GROSS: SOFT					P
			LEFT EPIDIDYMIS	GROSS: SMALL					P
			RIGHT EPIDIDYMIS	MICRO: HYOSPERMIA					3
				CELLULAR DEBRIS					1
			NO SIGNIFICANT						
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
				CECUM	COLON	DUODENUM	ESOPHAGUS		
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74822-15 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
GRADE

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MAMMARY GLAND NERVE, SCIATIC VAS DEFERENS PANCREAS  
PITUITARY PROSTATE RECTUM SPINAL CORD  
SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN  
SPLEEN SEMINAL VESICLES THYROID GLANDS TRACHEA  
URINARY BLADDER RIGHT EPIDIDYMISS COAGULATING GL  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN PROSTATE  
SPLEEN SEMINAL VESICLES COAGULATING GL

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74822-14 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.11	0.406		BASOPHILIC TUBULES				1
LIVER	21.79	4.190	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
KIDNEYS	4.43	0.852	NO SIGNIFICANT					1
SPLEEN	1.03	0.198	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.91	0.560		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.03	0.198		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.69	0.325		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.72	0.331		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.71	0.137		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.72	0.138		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.3242	0.062		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.3230	0.062		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.1227	0.024		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0526	0.010		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
PITUITARY	0.0171	0.003		PROSTATE	SPLEEN	SEMINAL VESICLES	THYMUS	
FINAL BODY WT(G)	520.			RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74827-03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: BASOPHILIC TUBULES				
BRAIN	1.83	0.473	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
LIVER	11.86	3.065	PROSTATE	MICRO: INFLAMMATION, SUBACUTE				1
KIDNEYS	2.77	0.716	NO SIGNIFICANT					
SPLEEN	0.51	0.132	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.69	0.695		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.22	0.315		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.64	0.424		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.63	0.421		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.59	0.152		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.56	0.145		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.2871	0.074		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.3011	0.078		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.3071	0.079		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0460	0.012		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
PITUITARY	0.0107	0.003		SPLEEN	SEMINAL VESICLES	THYMUS	RIGHT TESTIS	
FINAL BODY WT(G)	387.			RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74832-03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.09	0.374		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.26	3.803		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	3.77	0.674		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	1.10	0.197		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.14	0.383		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.42	0.254		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.67	0.299		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.67	0.299		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.69	0.123		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.72	0.129					
RIGHT CAUDA EPID	0.3398	0.061					
LEFT CAUDA EPID	0.3130	0.056					
THYMUS	0.2250	0.040					
ADRENAL GLANDS	0.0398	0.007					
PITUITARY	0.0197	0.004					
FINAL BODY WT(G)	559.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74833-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	ADRENAL MEDULLA	MICRO: NOT EXAMINED			
BRAIN	2.14	0.410		NEITHER ADRENAL MEDULLA EVALUATED; NOT IN PLANE; RECUT			
LIVER	17.53	3.358		EVALUATED			
KIDNEYS	3.51	0.672	KIDNEYS	MICRO: BASOPHILIC TUBULES			1
SPLEEN	0.84	0.161		INFLAMMATION, SUBACUTE			1
SEM VES/CG/FLUID	2.35	0.450	LIVER	MICRO: INFILTRATE, MONONUCLEAR			1
PROSTATE	1.18	0.226		NECROSIS, HEPATOCELLULAR			1
RIGHT TESTIS	1.69	0.324	THYMUS	MICRO: HEMORRHAGE			1
LEFT TESTIS	1.76	0.337	NO SIGNIFICANT				
RIGHT EPIDIDYMIS	0.71	0.136	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
LEFT EPIDIDYMIS	0.66	0.126		CECUM	COLON	DUODENUM	ESOPHAGUS
RIGHT CAUDA EPID	0.3022	0.058		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
LEFT CAUDA EPID	0.3161	0.061		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
THYMUS	0.2097	0.040		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
ADRENAL GLANDS	0.0483	0.009		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PITUITARY	0.0142	0.003		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
FINAL BODY WT(G)	522.			SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
				TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
				MICRO:ADRENAL CORTEX	BRAIN	PITUITARY	PROSTATE
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS
				COAGULATING GL			

NOT EXAMINED

MICRO:ADRENAL MEDULLA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74836-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.12	0.349		BASOPHILIC TUBULES				1
LIVER	18.82	3.100	LIVER	MICRO: NECROSIS, HEPATOCELLULAR				2
KIDNEYS	3.96	0.652		INFILTRATE, MONONUCLEAR				1
SPLEEN	0.72	0.119	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SEM VES/CG/FLUID	1.98	0.326	THYMUS	MICRO: HEMORRHAGE				1
PROSTATE	1.24	0.204	NO SIGNIFICANT					
RIGHT TESTIS	1.79	0.295	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.87	0.308		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.70	0.115		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.81	0.133		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.2951	0.049		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.3370	0.056		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.2820	0.046		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0733	0.012		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0158	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	607.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74853-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	EAR(S)	GROSS: SWOLLEN				P
BRAIN	2.15	0.420		BILATERAL				
LIVER	16.11	3.146	EAR(S)	MICRO: CHONDROPATHY, AURICULAR				3
KIDNEYS	3.54	0.691		CORRELATES TO GROSS SWOLLEN APPEARANCE				
SPLEEN	0.95	0.186	NO SIGNIFICANT					
SEM VES/CG/FLUID	2.41	0.471	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PROSTATE	1.43	0.279		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT TESTIS	1.77	0.346		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT TESTIS	1.66	0.324		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT EPIDIDYMIS	0.71	0.139		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT EPIDIDYMIS	0.75	0.146		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
RIGHT CAUDA EPID	0.3205	0.063		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
LEFT CAUDA EPID	0.3496	0.068		SPLEEN	SEMINARY VESICLES	THYROID GLANDS	THYMUS	
THYMUS	0.1680	0.033		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
ADRENAL GLANDS	0.0575	0.011		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
PITUITARY	0.0194	0.004						
FINAL BODY WT(G)	512.							

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74853-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74857-10 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
BRAIN	2.02	0.326		CECUM	COLON	DUODENUM	ESOPHAGUS
LIVER	21.28	3.432		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	4.04	0.652		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
SPLEEN	1.09	0.176		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS
SEM VES/CG/FLUID	2.57	0.415		PITUITARY	PROSTATE	RECTUM	SPINAL CORD
PROSTATE	1.33	0.215		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
RIGHT TESTIS	1.97	0.318		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS
LEFT TESTIS	1.94	0.313		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS
RIGHT EPIDIDYMIS	0.80	0.129		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL	
LEFT EPIDIDYMIS	0.79	0.127					
RIGHT CAUDA EPID	0.3849	0.062					
LEFT CAUDA EPID	0.3676	0.059					
THYMUS	0.2501	0.040					
ADRENAL GLANDS	0.0635	0.010					
PITUITARY	0.0171	0.003					
FINAL BODY WT(G)	620.						

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74860-03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.							
BRAIN	2.05	0.356	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
LIVER	18.29	3.175	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
KIDNEYS	3.46	0.601	PITUITARY	MICRO: #B ADENOMA, PARS DISTALIS					P
SPLEEN	0.81	0.141	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE					1
SEM VES/CG/FLUID	2.19	0.380	THYMUS	MICRO: HEMORRHAGE					1
PROSTATE	1.09	0.189	RIGHT EPIDIDYMIS	MICRO: INFILTRATE, LYMPHOCYTE					1
RIGHT TESTIS	1.83	0.318	NO SIGNIFICANT						
LEFT TESTIS	1.80	0.313	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
RIGHT EPIDIDYMIS	0.77	0.134		CECUM	COLON	DUODENUM	ESOPHAGUS		
LEFT EPIDIDYMIS	0.76	0.132		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
RIGHT CAUDA EPID	0.2783	0.048		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
LEFT CAUDA EPID	0.3574	0.062		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
THYMUS	0.2179	0.038		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
ADRENAL GLANDS	0.0463	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
PITUITARY	0.0165	0.003		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
FINAL BODY WT(G)	576.			TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
				LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	SPLEEN		
				SEMINAL VESICLES	RIGHT TESTIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT  
 # = NEOPLASM, B = BENIGN

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74860-02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	2.03	0.356		BASOPHILIC TUBULES				1
LIVER	20.90	3.660		DILATATION, TUBULAR				1
KIDNEYS	3.77	0.660	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.84	0.147	PROSTATE	MICRO: INFILTRATE, LYMPHOCYTE				1
SEM VES/CG/FLUID	1.97	0.345	THYMUS	MICRO: HEMORRHAGE				1
PROSTATE	1.13	0.198	NO SIGNIFICANT					
RIGHT TESTIS	1.87	0.327	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
LEFT TESTIS	1.94	0.340		CECUM	COLON	DUODENUM	ESOPHAGUS	
RIGHT EPIDIDYMIS	0.81	0.142		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
LEFT EPIDIDYMIS	0.74	0.130		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
RIGHT CAUDA EPID	0.2850	0.050		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
LEFT CAUDA EPID	0.3340	0.058		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
THYMUS	0.3025	0.053		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
ADRENAL GLANDS	0.0585	0.010		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
PITUITARY	0.0159	0.003		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
FINAL BODY WT(G)	571.			LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
				SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	RIGHT EPIDIDYMIS	
				COAGULATING GL				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74862-08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				
BRAIN	1.95	0.400	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
LIVER	15.34	3.150	THYMUS	MICRO: HEMORRHAGE				1
KIDNEYS	3.33	0.684	NO SIGNIFICANT					1
SPLEEN	0.98	0.201	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SEM VES/CG/FLUID	2.85	0.585		CECUM	COLON	DUODENUM	ESOPHAGUS	
PROSTATE	1.22	0.251		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
RIGHT TESTIS	1.85	0.380		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
LEFT TESTIS	1.81	0.372		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS	
RIGHT EPIDIDYMIS	0.77	0.158		PITUITARY	PROSTATE	RECTUM	SPINAL CORD	
LEFT EPIDIDYMIS	0.82	0.168		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
RIGHT CAUDA EPID	0.3100	0.064		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS	
LEFT CAUDA EPID	0.3844	0.079		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS	
THYMUS	0.2418	0.050		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL		
ADRENAL GLANDS	0.0462	0.009		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY	
PITUITARY	0.0156	0.003		PROSTATE	SPLEEN	SEMINAL VESICLES	RIGHT TESTIS	
FINAL BODY WT(G)	487.			RIGHT EPIDIDYMIS	COAGULATING GL			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74870-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					
BRAIN	2.00	0.320	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
LIVER	24.75	3.960	NO SIGNIFICANT						1
KIDNEYS	4.21	0.674	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
SPLEEN	1.05	0.168		CECUM	COLON	DUODENUM	ESOPHAGUS		
SEM VES/CG/FLUID	2.18	0.349		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PROSTATE	0.99	0.158		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
RIGHT TESTIS	1.85	0.296		MAMMARY GLAND	NERVE, SCIATIC	VAS DEFERENS	PANCREAS		
LEFT TESTIS	1.92	0.307		PITUITARY	PROSTATE	RECTUM	SPINAL CORD		
RIGHT EPIDIDYMIS	0.76	0.122		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
LEFT EPIDIDYMIS	0.84	0.134		SPLEEN	SEMINAL VESICLES	THYROID GLANDS	THYMUS		
RIGHT CAUDA EPID	0.3635	0.058		TRACHEA	URINARY BLADDER	RIGHT TESTIS	LEFT TESTIS		
LEFT CAUDA EPID	0.3980	0.064		LEFT EPIDIDYMIS	RIGHT EPIDIDYMIS	COAGULATING GL			
THYMUS	0.3568	0.057		MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	PITUITARY		
ADRENAL GLANDS	0.0819	0.013		PROSTATE	SPLEEN	SEMINAL VESICLES	THYMUS		
PITUITARY	0.0162	0.003		RIGHT TESTIS	RIGHT EPIDIDYMIS	COAGULATING GL			
FINAL BODY WT(G)	625.								

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 216 (F1 MALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74870-06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
GRADE

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GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PGRHv4.41  
07/08/2003

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 1

ANIMAL NO.74737-14 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS. (G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.88	0.525		0,0	P
LIVER	10.09	2.818	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	1.77	0.494	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.68	0.190	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
UTERUS/CX/OD	0.47	0.131		BILATERAL	
THYMUS	0.2657	0.074	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
OVARIES	0.0748	0.021		CORRELATES WITH GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.0479	0.013	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0206	0.006	OVARIES	MICRO: CYST	1
FINAL BODY WT(G)	358.			FOCAL	
			THYMUS	MICRO: HEMORRHAGE	2
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				PITUITARY SPLEEN UTERUS VAGINA	
				CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 2

ANIMAL NO.74737-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.97	0.621		8,7	
LIVER	10.62	3.350	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.16	0.681	KIDNEYS	MICRO: DILATATION, TUBULAR	1
SPLEEN	0.55	0.174		CONTAINS PROTEINACEOUS FLUID	
UTERUS/CX/OD	0.67	0.211	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.2417	0.076	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1030	0.032	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0686	0.022		CONSISTENT WITH EARLY DIESTRUS	
PITUITARY	0.0180	0.006	NO SIGNIFICANT		
FINAL BODY WT(G)	317.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

PAGE 3

ANIMAL NO.74740-07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.02	0.587		0,0	P
LIVER	12.98	3.773	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.18	0.634	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	2
SPLEEN	0.64	0.186		AT CORTICO-MEDULLARY JUNCTION	
UTERUS/CX/OD	1.33	0.387	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.2252	0.065	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.0840	0.024	UTERUS	MICRO: DILATATION, LUMEN	1
ADRENAL GLANDS	0.0692	0.020	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0244	0.007		CONSISTENT WITH PROESTRUS	
FINAL BODY WT(G)	344.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA CECUM COLON EYES/OPTIC N. HEART KIDNEYS LIVER MAMMARY GLAND NERVE, SCIATIC PANCREAS PITUITARY SAL. GLAND MAND STOMACH SPLEEN THYROID GLANDS URINARY BLADDER UTERUS MICRO:ADRENAL CORTEX ADRENAL MEDULLA OVARIES PITUITARY CERVIX	STERNEBRAE DUODENUM ILEUM LYMPH NODE, MES OVIDUCTS RECTUM SKELETAL MUSCLE THYMUS VAGINA BRAIN SPLEEN BRAIN ESOPHAGUS JEJUNUM LUNGS OVARIES SPINAL CORD SKIN TRACHEA CERVIX OVIDUCTS VAGINA

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74757-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.98	0.611		0,0	
LIVER	11.78	3.636	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.14	0.660	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
SPLEEN	0.63	0.194	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.57	0.176	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
THYMUS	0.2241	0.069		CONSISTENT WITH EARLY DIESTRUS	
OVARIES	0.1177	0.036	NO SIGNIFICANT		
ADRENAL GLANDS	0.0699	0.022	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
PITUITARY	0.0263	0.008		AORTA	STERNEBRAE
FINAL BODY WT(G)	324.			CECUM	DUODENUM
				EYES/OPTIC N.	ESOPHAGUS
				HEART	JEJUNUM
				KIDNEYS	ILEUM
				LIVER	LUNG, MES
				MAMMARY GLAND	LYMPH NODE, MES
				PANCREAS	LUNGS
				SAL. GLAND MAND	OVARIES
				SPLEEN	RECTUM
				URINARY BLADDER	SPINAL CORD
				UTERUS	SKIN
				MICRO:ADRENAL CORTEX	THYROID GLANDS
				ADRENAL MEDULLA	THYMUS
				PITUITARY	VAGINA
				OVARIES	UTERUS
				UTERUS	VAGINA
					CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74759-09 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.97	0.701		6,7	
LIVER	9.14	3.253	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.06	0.733	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.51	0.181	OVIDUCTS	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
UTERUS/CX/OD	0.69	0.246		ONE OVIDUCT EXAMINED; OTHER NOT FOUND IN WET TISSUES	
THYMUS	0.2510	0.089	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.1305	0.046		CONSISTENT WITH METESTRUS	
ADRENAL GLANDS	0.0701	0.025	NO SIGNIFICANT		
PITUITARY	0.0163	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	281.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS	
				OVIDUCTS OVARIES PITUITARY SPLEEN	
				THYMUS UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74764-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.568		8,7				
LIVER	11.56	3.420	NO SIGNIFICANT					
KIDNEYS	2.00	0.592	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.50	0.148		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.65	0.192		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3738	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1177	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0574	0.017		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0211	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	338.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74767-16 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.86	0.612		8,8				
LIVER	10.88	3.579	OVIDUCTS	GROSS: CYST(S)				P
KIDNEYS	2.00	0.658		ONE, 1 TO 2 MM IN DIAMETER, BILATERAL				
SPLEEN	0.65	0.214	NO SIGNIFICANT					
UTERUS/CX/OD	0.76	0.250	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
THYMUS	0.1500	0.049		CECUM	COLON	DUODENUM	ESOPHAGUS	
OVARIES	0.1282	0.042		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
ADRENAL GLANDS	0.0591	0.019		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PITUITARY	0.0186	0.006		MAMMARY GLAND	NERVE, SCIATIC	OVARIES	PANCREAS	
FINAL BODY WT(G)	304.			PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74767-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.99	0.594		8,9	
LIVER	12.13	3.621	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.24	0.669	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.61	0.182		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.82	0.245	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.1646	0.049	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1574	0.047	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0808	0.024		CONSISTENT WITH EARLY DIESTRUS	
PITUITARY	0.0229	0.007	NO SIGNIFICANT		
FINAL BODY WT(G)	335.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74772-09 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.13	0.659		7,8				P
LIVER	9.60	2.972	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS				P
KIDNEYS	2.14	0.663	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.67	0.207	UTERUS	MICRO: IMPLANTATION SITE				P
UTERUS/CX/OD	0.62	0.192	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
THYMUS	0.2204	0.068		CONSISTENT WITH METESTRUS				
OVARIES	0.1277	0.040	NO SIGNIFICANT					
ADRENAL GLANDS	0.0794	0.025	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0226	0.007		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	323.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				THYMUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74773-15 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	1.84	0.624		10,6					P
LIVER	10.26	3.478	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS					P
KIDNEYS	2.06	0.698	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE					1
SPLEEN	0.73	0.247	LIVER	MICRO: INFILTRATE, MONONUCLEAR					1
UTERUS/CX/OD	0.62	0.210	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
THYMUS	0.2232	0.076		CONSISTENT WITH DIESTRUS					
OVARIES	0.1159	0.039	NO SIGNIFICANT						
ADRENAL GLANDS	0.0769	0.026	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0159	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	295.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS		
				OVARIES	PITUITARY	SPLEEN	THYMUS		
				UTERUS	VAGINA	CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74773-08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.04	0.616		8,9				
LIVER	12.10	3.656	NO SIGNIFICANT					
KIDNEYS	2.02	0.610	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.205		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.66	0.199		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2891	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1220	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0705	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0195	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	331.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74774-15 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.06	0.544		0,0	
LIVER	12.58	3.319	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.19	0.578	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
SPLEEN	0.65	0.172		AT CORTICO-MEDULLARY JUNCTION	
UTERUS/CX/OD	0.85	0.224	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.1881	0.050	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1157	0.031	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0832	0.022		CONSISTENT WITH METESTRUS	
PITUITARY	0.0207	0.005	NO SIGNIFICANT		
FINAL BODY WT(G)	379.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74789-10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.96	0.626		11,3				
LIVER	11.42	3.649	NO SIGNIFICANT					
KIDNEYS	1.83	0.585	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.54	0.173		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.70	0.224		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3794	0.121		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1239	0.040		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0661	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0180	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	313.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74789-09 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.91	0.608		7,9				
LIVER	14.57	4.640	NO SIGNIFICANT					
KIDNEYS	2.15	0.685	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.210		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.64	0.204		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3773	0.120		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1080	0.034		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0792	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0199	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	314.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74804-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.85	0.605		0,9	
LIVER	11.09	3.624	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.12	0.693	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.56	0.183		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.58	0.190	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.3983	0.130	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1497	0.049	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0847	0.028		CONSISTENT WITH DIESTRUS	
PITUITARY	0.0191	0.006	NO SIGNIFICANT		
FINAL BODY WT(G)	306.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74804-08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.632		9,7				
LIVER	10.74	3.498	NO SIGNIFICANT					
KIDNEYS	1.99	0.648	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.48	0.156		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.56	0.182		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3414	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1322	0.043		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0681	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0178	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	307.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74808-13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.04	0.622		5,13	P
LIVER	11.13	3.393	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.14	0.652	KIDNEYS	GROSS: AREA(S), DEPRESSED	P
SPLEEN	0.66	0.201		FEW, 1 TO 3 MM IN DIAMETER, IN CORTEX, BILATERAL	
UTERUS/CX/OD	0.72	0.220	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
THYMUS	0.3384	0.103		NO CORRELATE TO GROSS DEPRESSED AREAS	
OVARIES	0.1366	0.042		MINERALIZATION, TUBULAR	2
ADRENAL GLANDS	0.0863	0.026		AT CORTICO-MEDULLARY JUNCTION	
PITUITARY	0.0167	0.005	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
FINAL BODY WT(G)	328.		THYMUS	MICRO: HEMORRHAGE	1
			UTERUS	MICRO: DILATATION, LUMEN	1
				IMPLANTATION SITE	P
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH ESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN VAGINA	
				CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74808-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.78	0.584		11,6	
LIVER	10.92	3.580	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	2
KIDNEYS	2.40	0.787		AT CORTICO-MEDULLARY JUNCTION	
SPLEEN	0.62	0.203	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.92	0.302	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.4047	0.133	UTERUS	MICRO: IMPLANTATION SITE	P
OVARIES	0.1567	0.051		DILATATION, LUMEN	1
ADRENAL GLANDS	0.0745	0.024	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0189	0.006		CONSISTENT WITH ESTRUS	
FINAL BODY WT(G)	305.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74810-16 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.00	0.633		6,6	P
LIVER	12.34	3.905	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.15	0.680	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
SPLEEN	0.66	0.209	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
UTERUS/CX/OD	0.73	0.231		BILATERAL	
THYMUS	0.2353	0.074	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
OVARIES	0.1169	0.037		CORRELATES WITH GROSS RED DISCOLORATION	
ADRENAL GLANDS	0.0824	0.026	LIVER	MICRO: PIGMENT	1
PITUITARY	0.0210	0.007		GOLDEN-BROWN; MULTIFOCAL	
FINAL BODY WT(G)	316.			INFILTRATE, MONONUCLEAR	1
			THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: INFILTRATE, MONONUCLEAR	1
				CONSISTENT WITH ESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN UTERUS	
				CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74826-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.93	0.580		0,0	
LIVER	11.30	3.393	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.07	0.622	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.52	0.156	OVARIES	MICRO: DECREASED CORPORA LUTEA	2
UTERUS/CX/OD	0.71	0.213	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2065	0.062	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0466	0.014		CONSISTENT WITH METESTRUS	
ADRENAL GLANDS	0.0700	0.021	NO SIGNIFICANT		
PITUITARY	0.0184	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	333.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN LIVER	
				OVIDUCTS PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74826-08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.90	0.592		6,9	
LIVER	11.65	3.629	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
KIDNEYS	2.04	0.636		AT CORTICO-MEDULLARY JUNCTION	
SPLEEN	0.57	0.178	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.79	0.246	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2420	0.075	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.1237	0.039		CONSISTENT WITH DIESTRUS	
ADRENAL GLANDS	0.0897	0.028	NO SIGNIFICANT		
PITUITARY	0.0199	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	321.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74829-11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.03	0.627		8,8				P
LIVER	12.43	3.836	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS				P
KIDNEYS	2.33	0.719	KIDNEYS	MICRO: BASOPHILIC TUBULES				1
SPLEEN	0.75	0.231		INFLAMMATION, SUBACUTE				1
UTERUS/CX/OD	0.71	0.219		FOCAL				
THYMUS	0.2770	0.085	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
OVARIES	0.0949	0.029		CONSISTENT WITH EARLY DIESTRUS				
ADRENAL GLANDS	0.0756	0.023	NO SIGNIFICANT					
PITUITARY	0.0213	0.007	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
FINAL BODY WT(G)	324.			CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				THYMUS	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74840-03 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.13	0.603		6,0	P
LIVER	12.36	3.501	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.33	0.660	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.68	0.193	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.49	0.139		FIBROSIS, BILE DUCTS	2
THYMUS	0.4103	0.116		LIMITED TO ONE PORTION OF ONE LOBE	
OVARIES	0.1253	0.035	THYMUS	MICRO: HEMORRHAGE	1
ADRENAL GLANDS	0.0660	0.019	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0224	0.006		CONSISTENT WITH EARLY DIESTRUS	
FINAL BODY WT(G)	353.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74841-12 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.93	0.702		7,7				P
LIVER	9.22	3.353	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS				P
KIDNEYS	1.82	0.662	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.56	0.204	UTERUS	MICRO: IMPLANTATION SITE				P
UTERUS/CX/OD	0.48	0.175	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
THYMUS	0.3061	0.111		CONSISTENT WITH DIESTRUS				
OVARIES	0.0998	0.036	NO SIGNIFICANT					
ADRENAL GLANDS	0.0762	0.028	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0224	0.008		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	275.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				THYMUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74844-05 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.75	0.522		0,0				P
LIVER	12.55	3.746	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS				P
KIDNEYS	2.02	0.603	KIDNEYS	MICRO: MINERALIZATION, TUBULAR				1
SPLEEN	0.51	0.152	OVARIES	MICRO: DECREASED CORPORA LUTEA				3
UTERUS/CX/OD	0.74	0.221		BILATERAL				
THYMUS	0.1705	0.051	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
OVARIES	0.0504	0.015		CONSISTENT WITH PROESTRUS				
ADRENAL GLANDS	0.0867	0.026	NO SIGNIFICANT					
PITUITARY	0.0296	0.009	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
FINAL BODY WT(G)	335.			CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	LIVER	
				OVIDUCTS	PITUITARY	SPLEEN	THYMUS	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74844-07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.83	0.604		6,7				
LIVER	10.80	3.564	NO SIGNIFICANT					
KIDNEYS	1.87	0.617	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.47	0.155		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.29	0.426		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2751	0.091		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0937	0.031		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0678	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0143	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	303.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74845-07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.82	0.595		9,5	P
LIVER	10.02	3.275	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.03	0.663	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.62	0.203		DILATATION, TUBULAR	2
UTERUS/CX/OD	0.86	0.281		FOCAL	
THYMUS	0.2733	0.089		FIBROSIS, INTERSTITIAL	2
OVARIES	0.1108	0.036		FOCAL	
ADRENAL GLANDS	0.0611	0.020	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0229	0.007	THYMUS	MICRO: HEMORRHAGE	1
FINAL BODY WT(G)	306.		UTERUS	MICRO: IMPLANTATION SITE	P
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH METESTRUS	

NO SIGNIFICANT  
 CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	UTERUS	VAGINA	CERVIX
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS
OVARIES	PITUITARY	SPLEEN	VAGINA
CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74854-08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.87	0.568		0,0	P
LIVER	10.37	3.152	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.17	0.660	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	2
SPLEEN	0.69	0.210		MINIMAL IN CORTEX; MILD BENEATH PELVIC EPITHELIUM	
UTERUS/CX/OD	0.50	0.152		HYPERPLASIA, TRANSITIONAL CELL	1
THYMUS	0.2015	0.061		UNILATERAL	
OVARIES	0.1217	0.037	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0654	0.020	TEETH	GROSS: MALALIGNED	P
PITUITARY	0.0163	0.005		UPPER INCISOR, BILATERAL	
FINAL BODY WT(G)	329.		THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH EARLY DIESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	NERVE, SCIATIC
				PANCREAS	PITUITARY
				SAL. GLAND MAND	STOMACH
				SPLEEN	THYROID GLANDS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				OVARIES	PITUITARY
				VAGINA	CERVIX
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					RECTUM
					SPINAL CORD
					SKIN
					SKELETAL MUSCLE
					THYMUS
					VAGINA
					CERVIX
					OVIDUCTS
					SPLEEN
					UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74864-15 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: ORGAN DAMAGED AT NECROPSY				
BRAIN	1.84	0.669		EYE, RIGHT				P
LIVER	9.56	3.476	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
KIDNEYS	1.76	0.640		0,0				
SPLEEN	0.57	0.207	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS				P
UTERUS/CX/OD	0.70	0.255	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE				1
THYMUS	0.3315	0.121		BASOPHILIC TUBULES				1
OVARIES	0.0865	0.031	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
ADRENAL GLANDS	0.0711	0.026	THYMUS	MICRO: HEMORRHAGE				1
PITUITARY	0.0153	0.006	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
FINAL BODY WT(G)	275.			CONSISTENT WITH EARLY DIESTRUS				
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS	
				OVARIES	PITUITARY	SPLEEN	UTERUS	
				VAGINA	CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74867-07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.99	0.535		0,9				
LIVER	12.69	3.411	NO SIGNIFICANT					
KIDNEYS	2.20	0.591	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.161		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.70	0.188		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3284	0.088		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1021	0.027		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0677	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0170	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	372.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74742-18 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.71	0.725		9,3				
LIVER	9.67	4.097	NO SIGNIFICANT					
KIDNEYS	1.61	0.682	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.46	0.195		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.66	0.280		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3300	0.140		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0955	0.040		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0520	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0161	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	236.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74746-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.84	0.540		10,7				
LIVER	12.45	3.651	NO SIGNIFICANT					
KIDNEYS	2.33	0.683	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.69	0.202		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2288	0.067		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1512	0.044		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0600	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0156	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	341.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74753-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.97	0.585		9,8				
LIVER	10.99	3.261	NO SIGNIFICANT					
KIDNEYS	1.95	0.579	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.187		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.21	0.359		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4114	0.122		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1127	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0801	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0162	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	337.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74761-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.78	0.657		3,9				
LIVER	11.01	4.063	NO SIGNIFICANT					
KIDNEYS	1.69	0.624	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.54	0.199		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.79	0.292		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2774	0.102		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0823	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0702	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0192	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	271.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74762-11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.87	0.638		7,7				
LIVER	10.19	3.478	NO SIGNIFICANT					
KIDNEYS	1.92	0.655	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.52	0.177		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.91	0.311		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3753	0.128		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0890	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0649	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0151	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	293.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74782-09 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: MECHANICAL TRAUMA				
BRAIN	1.64	0.638		DISTAL TAIL MISSING				P
LIVER	8.42	3.276	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
KIDNEYS	1.75	0.681		4,6				
SPLEEN	0.51	0.198	NO SIGNIFICANT					
UTERUS/CX/OD	0.56	0.218	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
THYMUS	0.4234	0.165		CECUM	COLON	DUODENUM	ESOPHAGUS	
OVARIES	0.1241	0.048		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
ADRENAL GLANDS	0.0611	0.024		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
PITUITARY	0.0092	0.004		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
FINAL BODY WT(G)	257.			PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74785-08 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.80	0.616		8,6				
LIVER	10.53	3.606	NO SIGNIFICANT					
KIDNEYS	1.96	0.671	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.40	0.137		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.86	0.295		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3453	0.118		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1055	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0871	0.030		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0184	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	292.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74790-15 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.07	0.714		8,10				
LIVER	10.96	3.779	NO SIGNIFICANT					
KIDNEYS	1.87	0.645	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.228		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.32	0.455		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2903	0.100		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1596	0.055		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0806	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0163	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	290.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74790-14 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.95	0.627		3,11				
LIVER	9.99	3.212	NO SIGNIFICANT					
KIDNEYS	2.26	0.727	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.79	0.254		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.83	0.267		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3281	0.105		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1698	0.055		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0850	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0148	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	311.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74796-15 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.515		12,7				
LIVER	14.29	3.645	NO SIGNIFICANT					
KIDNEYS	2.43	0.620	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.86	0.219		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.64	0.163		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4115	0.105		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1277	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0717	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0249	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	392.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74797-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.79	0.658		0,0	
LIVER	8.91	3.276	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	1.75	0.643	KIDNEYS	MICRO: MINERALIZATION, PELVIC	1
SPLEEN	0.50	0.184		UNILATERAL	
UTERUS/CX/OD	0.49	0.180	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.2099	0.077	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.0721	0.027	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0612	0.022		CONSISTENT WITH EARLY DIESTRUS	
PITUITARY	0.0196	0.007	NO SIGNIFICANT		
FINAL BODY WT(G)	272.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74798-13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.84	0.617		8,9				
LIVER	11.42	3.832	NO SIGNIFICANT					
KIDNEYS	1.87	0.628	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.75	0.252		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.64	0.215		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2836	0.095		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0932	0.031		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0554	0.019		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0175	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	298.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74798-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.99	0.599		8,8				P
LIVER	10.96	3.301	LUNGS	GROSS: AREA(S), DARK RED				P
KIDNEYS	2.07	0.623		ONE, 2 MM IN DIAMETER, LEFT LOBE AND RIGHT DIAPHRAGMATIC LOBE				
SPLEEN	0.73	0.220	LUNGS	MICRO: HEMORRHAGE				1
UTERUS/CX/OD	0.74	0.223		CORRELATES TO GROSS RED AREA				
THYMUS	0.2760	0.083		INFILTRATE, MONONUCLEAR, SUBPLEURAL				1
OVARIES	0.1333	0.040	NO SIGNIFICANT					
ADRENAL GLANDS	0.0541	0.016	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0165	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	332.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	MAMMARY GLAND	
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74802-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.79	0.617		6,9				
LIVER	12.86	4.434	NO SIGNIFICANT					
KIDNEYS	2.09	0.721	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.52	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.73	0.252		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3942	0.136		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1068	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0625	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0123	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	290.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74809-08 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	2.02	0.692		7,9				P
LIVER	9.21	3.154	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
KIDNEYS	2.03	0.695		ONE, 2 MM IN DIAMETER, IN CORTEX, LEFT				
SPLEEN	0.42	0.144	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
UTERUS/CX/OD	0.77	0.264		NO CORRELATE TO GROSS DEPRESSED AREAS				
THYMUS	0.1775	0.061	NO SIGNIFICANT					
OVARIES	0.0935	0.032	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
ADRENAL GLANDS	0.0569	0.019		CECUM	COLON	DUODENUM	ESOPHAGUS	
PITUITARY	0.0200	0.007		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
FINAL BODY WT(G)	292.			LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		
				MICRO:KIDNEYS				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74816-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.89	0.620		12,8				
LIVER	11.03	3.616	NO SIGNIFICANT					
KIDNEYS	2.30	0.754	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.207		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.88	0.289		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2703	0.089		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0900	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0787	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0221	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	305.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74819-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.667		7,9				
LIVER	11.11	3.667	NO SIGNIFICANT					
KIDNEYS	2.26	0.746	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.182		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.85	0.281		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3158	0.104		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1343	0.044		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0696	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0139	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	303.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74823-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.91	0.616		9,7				
LIVER	12.95	4.177	NO SIGNIFICANT					
KIDNEYS	2.14	0.690	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.57	0.184		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.55	0.177		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3665	0.118		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1286	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0714	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0143	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	310.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74824-11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.89	0.602		0,0	
LIVER	11.34	3.611	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	1.94	0.618	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.57	0.182	THYMUS	MICRO: HEMORRHAGE	1
UTERUS/CX/OD	0.66	0.210	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
THYMUS	0.3068	0.098		CONSISTENT WITH METESTRUS	
OVARIES	0.0897	0.029	NO SIGNIFICANT		
ADRENAL GLANDS	0.0783	0.025	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
PITUITARY	0.0170	0.005		AORTA	STERNEBRAE
FINAL BODY WT(G)	314.			CECUM	DUODENUM
				EYES/OPTIC N.	ESOPHAGUS
				HEART	JEJUNUM
				KIDNEYS	ILEUM
				LIVER	LUNG NODE, MES
				MAMMARY GLAND	LUNGS
				NERVE, SCIATIC	OVARIES
				PITUITARY	RECTUM
				PANCREAS	SPINAL CORD
				SAL. GLAND MAND	STOMACH
				STOMACH	SKELETAL MUSCLE
				SPLEEN	SKIN
				THYROID GLANDS	THYMUS
				UTERUS	TRACHEA
				UTERUS	VAGINA
				MICRO:ADRENAL CORTEX	UTERUS
				ADRENAL MEDULLA	VAGINA
				ADRENAL MEDULLA	BRAIN
				OVARIES	PITUITARY
				OVIDUCTS	PITUITARY
				OVIDUCTS	SPLEEN
				UTERUS	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74835-11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.76	0.793		0,0	
LIVER	7.69	3.464	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	1.62	0.730	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.39	0.176		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.56	0.252	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.1789	0.081		NECROSIS, HEPATOCELLULAR	1
OVARIES	0.0999	0.045		FOCAL; ACUTE	
ADRENAL GLANDS	0.0529	0.024	THYMUS	MICRO: HEMORRHAGE	1
PITUITARY	0.0141	0.006	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	222.			CONSISTENT WITH METESTRUS	

NO SIGNIFICANT  
 CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	UTERUS	VAGINA	CERVIX
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS
OVARIES	PITUITARY	SPLEEN	UTERUS
VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74835-07 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.85	0.591		7,7				
LIVER	10.36	3.310	NO SIGNIFICANT					
KIDNEYS	2.10	0.671	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.56	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.81	0.259		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3093	0.099		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1084	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0690	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0154	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	313.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74838-11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.99	0.661		9,8				
LIVER	9.97	3.312	NO SIGNIFICANT					
KIDNEYS	1.74	0.578	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.203		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.66	0.219		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2941	0.098		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1217	0.040		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0716	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0173	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	301.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74839-18 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.00	0.649		0,0	
LIVER	12.23	3.971	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.28	0.740	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
SPLEEN	0.60	0.195		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.77	0.250	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
THYMUS	0.1013	0.033	OVARIES	MICRO: CYST	1
OVARIES	0.1048	0.034	THYMUS	MICRO: HEMORRHAGE	1
ADRENAL GLANDS	0.0978	0.032	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0210	0.007		CONSISTENT WITH EARLY DIESTRUS	
FINAL BODY WT(G)	308.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74846-07 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.88	0.631		3,10				
LIVER	10.98	3.685	NO SIGNIFICANT					
KIDNEYS	2.11	0.708	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.201		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.54	0.181		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2131	0.072		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1056	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0722	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0170	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	298.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74856-15 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.82	0.617		6,7				
LIVER	11.08	3.756	NO SIGNIFICANT					
KIDNEYS	1.79	0.607	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.58	0.197		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.13	0.383		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3384	0.115		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1244	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0802	0.027		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0167	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	295.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74859-09 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.08	0.658		4,11				
LIVER	9.71	3.073	NO SIGNIFICANT					
KIDNEYS	2.01	0.636	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.174		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.49	0.155		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2736	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1298	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0827	0.026		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0132	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	316.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74859-12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.88	0.534		8,6				
LIVER	13.68	3.886	NO SIGNIFICANT					
KIDNEYS	2.22	0.631	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.179		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.98	0.278		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3151	0.090		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0978	0.028		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0627	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0185	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	352.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74861-05 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.73	0.629		5,2				P
LIVER	8.05	2.927	OVIDUCTS	GROSS: CYST(S)				P
KIDNEYS	1.89	0.687		ONE, 8 MM IN DIAMETER, RED FLUID FILLED, RIGHT				
SPLEEN	0.46	0.167	OVIDUCTS	MICRO: CYST				2
UTERUS/CX/OD	0.53	0.193		CORRELATES TO GROSS CYST				
THYMUS	0.1759	0.064	NO SIGNIFICANT					
OVARIES	0.0787	0.029	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
ADRENAL GLANDS	0.0683	0.025		CECUM	COLON	DUODENUM	ESOPHAGUS	
PITUITARY	0.0196	0.007		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
FINAL BODY WT(G)	275.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74863-10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.04	0.581		0,0	P
LIVER	12.07	3.439	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.03	0.578	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
SPLEEN	0.58	0.165		BILATERAL	
UTERUS/CX/OD	0.78	0.222	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
THYMUS	0.2452	0.070		CORRELATES WITH GROSS RED DISCOLORATION	
OVARIES	0.1051	0.030	OVARIES	MICRO: CYST	2
ADRENAL GLANDS	0.0974	0.028		BILATERAL	
PITUITARY	0.0191	0.005	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	351.			CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	OVIDUCTS
				PANCREAS	RECTUM
				SAL. GLAND MAND	SKELETAL MUSCLE
				SPLEEN	THYMUS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				LIVER	OVIDUCTS
				THYMUS	UTERUS
					BRAIN
					PITUITARY
					VAGINA
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					KIDNEYS
					SPLEEN
					CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74869-04 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.576		10,6				
LIVER	13.48	4.000	NO SIGNIFICANT					
KIDNEYS	2.26	0.671	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.187		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.45	0.134		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4180	0.124		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1071	0.032		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0811	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	337.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74738-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.79	0.559		4,9				
LIVER	15.03	4.697	NO SIGNIFICANT					
KIDNEYS	2.17	0.678	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.64	0.200		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.54	0.169		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2501	0.078		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1032	0.032		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0662	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0178	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	320.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74738-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.76	0.573		5,9				
LIVER	11.97	3.899	NO SIGNIFICANT					
KIDNEYS	1.87	0.609	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.53	0.173		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.12	0.365		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2685	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1137	0.037		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0625	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0158	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	307.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74739-08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.93	0.588		0,0	
LIVER	11.45	3.491	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.03	0.619	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.55	0.168	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.63	0.192	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2408	0.073	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0941	0.029		CONSISTENT WITH EARLY DIESTRUS	
ADRENAL GLANDS	0.0711	0.022	NO SIGNIFICANT		
PITUITARY	0.0257	0.008	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	328.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74743-08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.13	0.659		4,11					P
LIVER	13.08	4.050	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	2.10	0.650		BILATERAL					
SPLEEN	0.65	0.201	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
UTERUS/CX/OD	0.90	0.279		CORRELATES WITH GROSS RED DISCOLORATION					
THYMUS	0.2579	0.080	NO SIGNIFICANT						
OVARIES	0.1273	0.039	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
ADRENAL GLANDS	0.0598	0.019		CECUM	COLON	DUODENUM	ESOPHAGUS		
PITUITARY	0.0191	0.006		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
FINAL BODY WT(G)	323.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74744-16 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.90	0.646		0,0	P
LIVER	10.60	3.605	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	1
KIDNEYS	1.92	0.653	KIDNEYS	GROSS: AREA(S), DEPRESSED	P
SPLEEN	0.68	0.231		ONE, 2 MM IN DIAMETER, IN CORTEX, RIGHT; FEW, 1 TO 2 MM IN DIAMETER, IN CORTEX, LEFT	
UTERUS/CX/OD	0.57	0.194			
THYMUS	0.2700	0.092	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
OVARIES	0.1020	0.035		NO CORRELATE TO GROSS DEPRESSED AREAS	
ADRENAL GLANDS	0.0626	0.021	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
PITUITARY	0.0168	0.006	THYMUS	MICRO: HEMORRHAGE	1
FINAL BODY WT(G)	294.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH EARLY ESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74748-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.89	0.639		9,6				
LIVER	11.10	3.750	NO SIGNIFICANT					
KIDNEYS	1.89	0.639	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.213		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.58	0.196		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2399	0.081		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1240	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0618	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0169	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	296.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74752-10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.89	0.545		6,12				
LIVER	13.11	3.778	NO SIGNIFICANT					
KIDNEYS	2.12	0.611	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.49	0.141		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.55	0.159		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2913	0.084		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1187	0.034		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0623	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	347.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74766-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.84	0.692		0,0	P
LIVER	9.22	3.466	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	1.58	0.594	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
SPLEEN	0.45	0.169		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT	
UTERUS/CX/OD	0.69	0.259		EVALUATED	
THYMUS	0.3625	0.136	THYMUS	MICRO: HEMORRHAGE	2
OVARIES	0.0722	0.027	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0604	0.023		CONSISTENT WITH PROESTRUS	
PITUITARY	0.0144	0.005	NO SIGNIFICANT		
FINAL BODY WT(G)	266.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS LIVER OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74780-04 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.00	0.597		10,6				
LIVER	11.63	3.472	NO SIGNIFICANT					
KIDNEYS	2.34	0.699	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.203		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.53	0.158		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2626	0.078		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1273	0.038		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0979	0.029		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0175	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	335.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74791-13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.85	0.685		9,3				
LIVER	10.68	3.956	NO SIGNIFICANT					
KIDNEYS	1.93	0.715	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.46	0.170		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.40	0.148		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2353	0.087		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0959	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0624	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0121	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	270.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74793-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.90	0.625		6,7				
LIVER	11.10	3.651	NO SIGNIFICANT					
KIDNEYS	2.17	0.714	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.63	0.207		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.71	0.234		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.4246	0.140		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0996	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0679	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0149	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	304.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74795-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.82	0.532		0,0	P
LIVER	10.80	3.158	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.11	0.617	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
SPLEEN	0.50	0.146		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT	
UTERUS/CX/OD	0.50	0.146		EVALUATED	
THYMUS	0.2638	0.077	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
OVARIES	0.0824	0.024		DILATATION, TUBULAR	1
ADRENAL GLANDS	0.0595	0.017		CONTAINS PROTEINACEOUS FLUID	
PITUITARY	0.0189	0.006	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
FINAL BODY WT(G)	342.		THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH EARLY DIESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	OVIDUCTS
				PANCREAS	RECTUM
				SAL. GLAND MAND	SKELETAL MUSCLE
				SPLEEN	THYMUS
				URINARY BLADDER	UTERUS
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA
				OVARIES	PITUITARY
				VAGINA	CERVIX
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					OVARIES
					SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					OVIDUCTS
					UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74799-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.87	0.687		9,6				
LIVER	8.82	3.243	NO SIGNIFICANT					
KIDNEYS	1.75	0.643	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.59	0.217		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.86	0.316		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2981	0.110		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1147	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0763	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0223	0.008		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	272.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74801-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.94	0.533		0,0	
LIVER	13.19	3.624	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.59	0.712	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.65	0.179		MINERALIZATION, PELVIC	1
UTERUS/CX/OD	0.77	0.212		HYPERPLASIA, TRANSITIONAL CELL	1
THYMUS	0.3499	0.096		UNILATERAL	
OVARIES	0.0680	0.019	OVARIES	MICRO: DECREASED CORPORA LUTEA	3
ADRENAL GLANDS	0.0779	0.021		BILATERAL	
PITUITARY	0.0245	0.007	THYMUS	MICRO: HEMORRHAGE	1
FINAL BODY WT(G)	364.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH EARLY ESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN LIVER	
				OVIDUCTS PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74806-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.79	0.599		5,9				
LIVER	8.92	2.983	NO SIGNIFICANT					
KIDNEYS	1.95	0.652	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.201		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.74	0.582		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3326	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1063	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0756	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0144	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	299.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74820-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.91	0.666		8,6				
LIVER	9.69	3.376	NO SIGNIFICANT					
KIDNEYS	2.05	0.714	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.53	0.185		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.53	0.185		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2655	0.093		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0940	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0842	0.029		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0202	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	287.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74821-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.96	0.592		7,7				
LIVER	10.65	3.218	NO SIGNIFICANT					
KIDNEYS	2.07	0.625	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.59	0.178		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.77	0.233		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2498	0.075		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1080	0.033		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0668	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0191	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	331.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74821-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.96	0.683		7,11				
LIVER	10.06	3.505	NO SIGNIFICANT					
KIDNEYS	2.11	0.735	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.44	0.153		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.74	0.258		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2846	0.099		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1244	0.043		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0721	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0133	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	287.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74830-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.77	0.573		0,0	
LIVER	10.28	3.327	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	1.91	0.618	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.58	0.188	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.63	0.204	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2833	0.092	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0866	0.028		CONSISTENT WITH METESTRUS	
ADRENAL GLANDS	0.0650	0.021	NO SIGNIFICANT		
PITUITARY	0.0138	0.004	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	309.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74831-12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.94	0.616		11,7				
LIVER	11.84	3.759	NO SIGNIFICANT					
KIDNEYS	2.23	0.708	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.70	0.222		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.62	0.197		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2599	0.083		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1497	0.048		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0666	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0176	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	315.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74834-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.08	0.715		2,7				
LIVER	11.25	3.866	NO SIGNIFICANT					
KIDNEYS	2.17	0.746	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.51	0.175		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.42	0.144		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2771	0.095		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1046	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0531	0.018		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0194	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	291.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74847-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.87	0.536		6,11				
LIVER	11.26	3.226	NO SIGNIFICANT					
KIDNEYS	2.26	0.648	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.66	0.189		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.90	0.258		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3072	0.088		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1213	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0702	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0171	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	349.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74848-04 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.93	0.569		7,11				
LIVER	11.27	3.324	NO SIGNIFICANT					
KIDNEYS	2.29	0.676	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.69	0.204		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.66	0.195		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3135	0.092		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1324	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0630	0.019		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0154	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	339.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74849-07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.90	0.644		10,4				
LIVER	10.02	3.397	NO SIGNIFICANT					
KIDNEYS	1.88	0.637	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.46	0.156		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.82	0.278		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2208	0.075		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1022	0.035		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0646	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0155	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	295.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74850-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.86	0.679		8,6				
LIVER	9.99	3.646	NO SIGNIFICANT					
KIDNEYS	1.79	0.653	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.201		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.54	0.197		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.1508	0.055		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1096	0.040		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0592	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0119	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	274.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74850-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.86	0.631		6,8				
LIVER	12.79	4.336	NO SIGNIFICANT					
KIDNEYS	2.23	0.756	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.65	0.220		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.77	0.261		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2066	0.070		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1071	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0603	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0124	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	295.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74855-11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.76	0.564		4,9				
LIVER	10.82	3.468	NO SIGNIFICANT					
KIDNEYS	1.92	0.615	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.218		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.72	0.231		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3182	0.102		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1294	0.041		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0747	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0187	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	312.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74858-14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.94	0.574		0,0	
LIVER	12.28	3.633	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.09	0.618	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.67	0.198	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.52	0.154	OVARIES	MICRO: CYST	1
THYMUS	0.2605	0.077	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.1222	0.036	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0595	0.018		CONSISTENT WITH EARLY DIESTRUS	
PITUITARY	0.0127	0.004	NO SIGNIFICANT		
FINAL BODY WT(G)	338.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74868-20 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	1.80	0.600		8,5					P
LIVER	11.03	3.677	THYMUS	GROSS: ENLARGED					P
KIDNEYS	1.87	0.623	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.58	0.193		NO CORRELATE TO GROSS ENLARGEMENT					
UTERUS/CX/OD	0.68	0.227	NO SIGNIFICANT						
THYMUS	0.6246	0.208	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
OVARIES	0.1244	0.041		CECUM	COLON	DUODENUM	ESOPHAGUS		
ADRENAL GLANDS	0.0574	0.019		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
PITUITARY	0.0141	0.005		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
FINAL BODY WT(G)	300.			MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	TRACHEA	URINARY BLADDER		
				UTERUS	VAGINA	CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74871-09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.650		9,7				
LIVER	14.56	4.682	NO SIGNIFICANT					
KIDNEYS	2.13	0.685	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.47	0.151		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.54	0.174		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2586	0.083		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1344	0.043		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0613	0.020		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0158	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	311.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74747-17 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.13	0.625		0,0	
LIVER	12.01	3.522	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.22	0.651	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.59	0.173	OVARIES	MICRO: CYST	2
UTERUS/CX/OD	0.90	0.264	THYMUS	MICRO: HEMORRHAGE	1
THYMUS	0.2299	0.067	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
OVARIES	0.0725	0.021		CONSISTENT WITH PROESTRUS	
ADRENAL GLANDS	0.1012	0.030	NO SIGNIFICANT		
PITUITARY	0.0238	0.007	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
FINAL BODY WT(G)	341.			CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN KIDNEYS	
				OVIDUCTS PITUITARY SPLEEN UTERUS	
				VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74751-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.93	0.633		5,10				
LIVER	10.12	3.318	NO SIGNIFICANT					
KIDNEYS	1.94	0.636	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.55	0.180		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.62	0.203		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2539	0.083		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1192	0.039		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0861	0.028		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0172	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	305.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74754-15 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.80	0.564		6,9	P
LIVER	10.18	3.191	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	1.70	0.533	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.76	0.238	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
UTERUS/CX/OD	0.59	0.185	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
THYMUS	0.3060	0.096		CORRELATES WITH GROSS RED DISCOLORATION	
OVARIES	0.1026	0.032	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0627	0.020	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
PITUITARY	0.0141	0.004		CONSISTENT WITH DIESTRUS	
FINAL BODY WT(G)	319.		NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN THYMUS UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74755-01 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: MECHANICAL TRAUMA				
BRAIN	1.87	0.760		ENTIRE TAIL MISSING				P
LIVER	8.28	3.366	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
KIDNEYS	1.74	0.707		0,0				
SPLEEN	0.52	0.211	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS				P
UTERUS/CX/OD	0.79	0.321	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
THYMUS	0.1462	0.059		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT				
OVARIES	0.0739	0.030		EVALUATED				
ADRENAL GLANDS	0.0800	0.033	KIDNEYS	MICRO: BASOPHILIC TUBULES				1
PITUITARY	0.0150	0.006		INFLAMMATION, SUBACUTE				1
FINAL BODY WT(G)	246.		LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
			THYMUS	MICRO: HEMORRHAGE				1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
				CONSISTENT WITH METESTRUS				
			NO SIGNIFICANT					
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
				CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS	
				OVARIES	PITUITARY	SPLEEN	UTERUS	
				VAGINA	CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74768-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	1.96	0.568		8,9					P
LIVER	10.78	3.125	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS					P
KIDNEYS	2.25	0.652	THYMUS	MICRO: HEMORRHAGE					1
SPLEEN	0.51	0.148	UTERUS	MICRO: DILATATION, LUMEN					2
UTERUS/CX/OD	1.20	0.348	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED					
THYMUS	0.2111	0.061		CONSISTENT WITH ESTRUS					
OVARIES	0.1376	0.040	NO SIGNIFICANT						
ADRENAL GLANDS	0.0764	0.022	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
PITUITARY	0.0119	0.003		CECUM	COLON	DUODENUM	ESOPHAGUS		
FINAL BODY WT(G)	345.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS		
				LIVER	OVIDUCTS	OVARIES	PITUITARY		
				SPLEEN	VAGINA	CERVIX			

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74769-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.91	0.608		9,7	P
LIVER	11.45	3.646	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	1.88	0.599	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
SPLEEN	0.76	0.242		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT	
UTERUS/CX/OD	0.63	0.201		EVALUATED	
THYMUS	0.3481	0.111	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
OVARIES	0.1377	0.044		INFLAMMATION, SUBACUTE	1
ADRENAL GLANDS	0.0764	0.024		MINERALIZATION, TUBULAR	1
PITUITARY	0.0157	0.005		DILATATION, TUBULAR	2
FINAL BODY WT(G)	314.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			LUNGS	GROSS: AREA(S), DARK RED	P
				MULTIPLE, IRREGULARLY SHAPED, ALL LOBES	
			LUNGS	MICRO: HEMORRHAGE	1
				CORRELATES TO GROSS RED AREA	
			THYMUS	MICRO: HEMORRHAGE	1
			UTERUS	MICRO: IMPLANTATION SITE	P
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH DIESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				NERVE, SCIATIC	OVARIES
				PITUITARY	RECTUM
				STOMACH	SPINAL CORD
				THYROID GLANDS	SKIN
					TRACHEA
					BRAIN
					ESOPHAGUS
					JEJUNUM
					MAMMARY GLAND
					PANCREAS
					SAL. GLAND MAND
					SPLEEN
					URINARY BLADDER

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74769-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
GRADE

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UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS  
OVARIES PITUITARY SPLEEN VAGINA  
CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74770-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.03	0.582		6,11				
LIVER	14.29	4.095	NO SIGNIFICANT					
KIDNEYS	2.34	0.670	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.68	0.195		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	1.30	0.372		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2927	0.084		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1016	0.029		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0814	0.023		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0173	0.005		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	349.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74770-10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.97	0.540		5,11				P
LIVER	11.93	3.268	OVARIES	GROSS: CYST(S)				P
KIDNEYS	2.21	0.605		ONE, 5 MM IN DIAMETER, RIGHT				
SPLEEN	0.61	0.167	OVARIES	MICRO: CYST				4
UTERUS/CX/OD	1.30	0.356		CORRELATES TO GROSS CYST				
THYMUS	0.2274	0.062	NO SIGNIFICANT					
OVARIES	0.2840	0.078	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
ADRENAL GLANDS	0.0617	0.017		CECUM	COLON	DUODENUM	ESOPHAGUS	
PITUITARY	0.0164	0.004		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
FINAL BODY WT(G)	365.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74786-10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.640		11,7				
LIVER	10.06	3.353	NO SIGNIFICANT					
KIDNEYS	2.11	0.703	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.203		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.74	0.247		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3520	0.117		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1071	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0734	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0265	0.009		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	300.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74787-10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	2.01	0.700		0,0	P
LIVER	9.41	3.279	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.06	0.718	ADRENAL MEDULLA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
SPLEEN	0.61	0.213		ONE ADRENAL MEDULLA EXAMINED; OTHER NOT IN PLANE; RECUT EVALUATED	
UTERUS/CX/OD	0.50	0.174			
THYMUS	0.2338	0.081	KIDNEYS	GROSS: AREA(S), DEPRESSED	P
OVARIES	0.0930	0.032		FEW, 1 TO 2 MM IN DIAMETER, IN CORTEX, RIGHT	
ADRENAL GLANDS	0.0719	0.025	KIDNEYS	MICRO: MINERALIZATION, TUBULAR	1
PITUITARY	0.0125	0.004		NO CORRELATE TO GROSS DEPRESSED AREAS	
FINAL BODY WT(G)	287.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES PITUITARY SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74792-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.88	0.586		0,0	
LIVER	11.34	3.533	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.02	0.629	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.77	0.240	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.65	0.202	PITUITARY	MICRO: CYST, PARS DISTALIS	2
THYMUS	0.2856	0.089	THYMUS	MICRO: HEMORRHAGE	1
OVARIES	0.0557	0.017	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
ADRENAL GLANDS	0.0608	0.019		CONSISTENT WITH PROESTRUS	
PITUITARY	0.0162	0.005	NO SIGNIFICANT		
FINAL BODY WT(G)	321.		CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN CECUM COLON DUODENUM ESOPHAGUS EYES/OPTIC N. HEART ILEUM JEJUNUM KIDNEYS LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN SPLEEN THYROID GLANDS THYMUS TRACHEA URINARY BLADDER UTERUS VAGINA CERVIX MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS OVARIES SPLEEN UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74792-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.80	0.621		8,6	P
LIVER	9.90	3.414	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS	P
KIDNEYS	2.00	0.690	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.63	0.217	THYMUS	MICRO: HEMORRHAGE	2
UTERUS/CX/OD	1.15	0.397	UTERUS	GROSS: ENLARGED	P
THYMUS	0.3025	0.104		BOTH HORNS	
OVARIES	0.0897	0.031	UTERUS	MICRO: DILATATION, LUMEN	2
ADRENAL GLANDS	0.0609	0.021		CORRELATES TO GROSS ENLARGEMENT	
PITUITARY	0.0172	0.006	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
FINAL BODY WT(G)	290.			CONSISTENT WITH ESTRUS	

NO SIGNIFICANT  
 CHANGES OBSERVED

GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
CECUM	COLON	DUODENUM	ESOPHAGUS
EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
PANCREAS	PITUITARY	RECTUM	SPINAL CORD
SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
SPLEEN	THYROID GLANDS	THYMUS	TRACHEA
URINARY BLADDER	VAGINA	CERVIX	
MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS
OVIDUCTS	OVARIES	PITUITARY	SPLEEN
VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74807-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.95	0.631		6,12				P
LIVER	11.97	3.874	PITUITARY	GROSS: DISCOLORATION, DARK RED				P
KIDNEYS	2.05	0.663	PITUITARY	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
SPLEEN	0.59	0.191		GROSS RED DISCOLORATION DUE TO VASCULAR CONGESTION				
UTERUS/CX/OD	0.78	0.252	NO SIGNIFICANT					
THYMUS	0.3298	0.107	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
OVARIES	0.1150	0.037		CECUM	COLON	DUODENUM	ESOPHAGUS	
ADRENAL GLANDS	0.0620	0.020		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
PITUITARY	0.0194	0.006		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
FINAL BODY WT(G)	309.			MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		
				MICRO:PITUITARY				

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74811-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.92	0.649		3,10				
LIVER	10.87	3.672	NO SIGNIFICANT					
KIDNEYS	1.95	0.659	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.61	0.206		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.51	0.172		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2803	0.095		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.0876	0.030		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0709	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0212	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	296.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74813-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	1.75	0.608		0,0	P
LIVER	9.71	3.372	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	1.69	0.587	BRAIN	MICRO: DILATATION, VENTRICLE	2
SPLEEN	0.68	0.236		ROSTRAL LATERAL VENTRICLE	
UTERUS/CX/OD	0.59	0.205	EAR(S)	GROSS: SWOLLEN	P
THYMUS	0.1706	0.059		BILATERAL	
OVARIES	0.0367	0.013	EAR(S)	MICRO: CHONDROPATHY, AURICULAR	3
ADRENAL GLANDS	0.0546	0.019		CORRELATES TO GROSS SWOLLEN APPEARANCE	
PITUITARY	0.0201	0.007	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
FINAL BODY WT(G)	288.		LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
			OVARIES	GROSS: SMALL	P
				BILATERAL	
			OVARIES	MICRO: DECREASED CORPORA LUTEA	4
				CORRELATES TO GROSS SMALLNESS	
			PITUITARY	MICRO: CYST, PARS DISTALIS	1
			THYMUS	MICRO: HEMORRHAGE	2
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH DIESTRUS	
			NO SIGNIFICANT		
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
				AORTA	STERNEBRAE
				CECUM	DUODENUM
				EYES/OPTIC N.	ILEUM
				KIDNEYS	LYMPH NODE, MES
				MAMMARY GLAND	OVIDUCTS
				PITUITARY	RECTUM
				STOMACH	SKELETAL MUSCLE
				THYROID GLANDS	THYMUS
					TRACHEA
					BRAIN
					ESOPHAGUS
					JEJUNUM
					LUNGS
					PANCREAS
					SAL. GLAND MAND
					SPLEEN
					URINARY BLADDER

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74813-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
GRADE

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UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA OVIDUCTS SPLEEN  
UTERUS VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74817-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)					
BRAIN	2.10	0.585		9,7					P
LIVER	11.91	3.318	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED					P
KIDNEYS	2.31	0.643		BILATERAL					
SPLEEN	0.61	0.170	LYMPH NODE, MAND	MICRO: HEMORRHAGE					2
UTERUS/CX/OD	0.75	0.209		CORRELATES WITH GROSS RED DISCOLORATION					
THYMUS	0.3083	0.086	NO SIGNIFICANT						
OVARIES	0.1271	0.035	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN		
ADRENAL GLANDS	0.0758	0.021		CECUM	COLON	DUODENUM	ESOPHAGUS		
PITUITARY	0.0244	0.007		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM		
FINAL BODY WT(G)	359.			KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS		
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES		
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD		
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN		
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA		
				URINARY BLADDER	UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74822-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.05	0.672		7,7				
LIVER	11.46	3.757	NO SIGNIFICANT					
KIDNEYS	2.30	0.754	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.59	0.193		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.97	0.318		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2225	0.073		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1394	0.046		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0758	0.025		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0226	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	305.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74827-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.90	0.696		6,7				P
LIVER	7.58	2.777	GENERAL COMMENT	MICRO: ESTROUS CYCLE: ESTRUS				P
KIDNEYS	1.81	0.663	LIVER	MICRO: INFILTRATE, MONONUCLEAR				1
SPLEEN	0.61	0.223	UTERUS	MICRO: DILATATION, LUMEN				2
UTERUS/CX/OD	1.44	0.527		IMPLANTATION SITE				P
THYMUS	0.4229	0.155	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED				
OVARIES	0.1067	0.039		CONSISTENT WITH ESTRUS				
ADRENAL GLANDS	0.0604	0.022	NO SIGNIFICANT					
PITUITARY	0.0155	0.006	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
FINAL BODY WT(G)	273.			CECUM	COLON	DUODENUM	ESOPHAGUS	
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
				SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	KIDNEYS	
				OVIDUCTS	OVARIES	PITUITARY	SPLEEN	
				THYMUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74832-07 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	
BRAIN	1.83	0.698		7,7	P
LIVER	10.33	3.943	KIDNEYS	GROSS: AREA(S), DEPRESSED	P
KIDNEYS	1.85	0.706		FEW, 1 TO 2 MM IN DIAMETER, IN CORTEX, BILATERAL	
SPLEEN	0.51	0.195	KIDNEYS	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
UTERUS/CX/OD	0.58	0.221		NO CORRELATE TO GROSS DEPRESSED AREAS	
THYMUS	0.1564	0.060	NO SIGNIFICANT		
OVARIES	0.0831	0.032	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0656	0.025		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0190	0.007		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	262.			LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	
				UTERUS VAGINA CERVIX	
				MICRO:KIDNEYS	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74833-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.89	0.610		8,6	
LIVER	12.02	3.877	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.19	0.706	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.57	0.184		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.88	0.284	LIVER	MICRO: KARYOMEGALY	1
THYMUS	0.3217	0.104		RANDOM HEPATOCYTES	
OVARIES	0.1458	0.047		INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0949	0.031	LUNGS	GROSS: AREA(S), DARK RED	P
PITUITARY	0.0159	0.005		ONE, 3 MM IN DIAMETER, LEFT LOBE	
FINAL BODY WT(G)	310.		LUNGS	MICRO: HEMORRHAGE	2
				CORRELATES TO GROSS RED AREA	
				INFLAMMATION, SUBACUTE	2
				FOCAL; ASSOCIATED WITH INTRA-ALVEOLAR HEMORRHAGE AND HEMOGLOBIN CRYSTALS	
			UTERUS	MICRO: IMPLANTATION SITE	P
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES MAMMARY GLAND	
				NERVE, SCIATIC OVIDUCTS OVARIES PANCREAS	
				PITUITARY RECTUM SPINAL CORD SAL. GLAND MAND	
				STOMACH SKELETAL MUSCLE SKIN SPLEEN	
				THYROID GLANDS THYMUS TRACHEA URINARY BLADDER	

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74833-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/29/02 DATE OF DEATH: 05/29/02 STUDY DAY: 267  
GRADE

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UTERUS VAGINA CERVIX  
MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS  
OVARIES PITUITARY SPLEEN THYMUS  
VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74836-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.08	0.558		9,6				
LIVER	12.42	3.330	NO SIGNIFICANT					
KIDNEYS	2.07	0.555	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.46	0.123		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.71	0.190		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2105	0.056		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1351	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0773	0.021		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0149	0.004		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	373.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74836-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	2.02	0.577		7,9				
LIVER	11.27	3.220	NO SIGNIFICANT					
KIDNEYS	2.03	0.580	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.48	0.137		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.64	0.183		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.2475	0.071		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1269	0.036		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0831	0.024		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0213	0.006		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	350.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74853-11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.96	0.638		9,9	
LIVER	11.08	3.609	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	1.84	0.599	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
SPLEEN	0.65	0.212		INFLAMMATION, SUBACUTE	1
UTERUS/CX/OD	0.75	0.244		MINERALIZATION, TUBULAR	2
THYMUS	0.3501	0.114		AT CORTICO-MEDULLARY JUNCTION	
OVARIES	0.1392	0.045	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
ADRENAL GLANDS	0.0691	0.023	THYMUS	MICRO: HEMORRHAGE	2
PITUITARY	0.0133	0.004	UTERUS	MICRO: IMPLANTATION SITE	P
FINAL BODY WT(G)	307.		VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
				CONSISTENT WITH METESTRUS	
			NO SIGNIFICANT CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
				CECUM COLON DUODENUM ESOPHAGUS	
				EYES/OPTIC N. HEART ILEUM JEJUNUM	
				KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	
				MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS	
				OVARIES PITUITARY SPLEEN VAGINA	
				CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74853-12 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.02	0.586		8,0	P
LIVER	10.37	3.006	LYMPH NODE, MAND	GROSS: DISCOLORATION, DARK RED	P
KIDNEYS	2.12	0.614		BILATERAL	
SPLEEN	0.67	0.194	LYMPH NODE, MAND	MICRO: HEMORRHAGE	2
UTERUS/CX/OD	0.63	0.183		CORRELATES WITH GROSS RED DISCOLORATION	
THYMUS	0.3007	0.087	NO SIGNIFICANT		
OVARIES	0.1440	0.042	CHANGES OBSERVED	GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN	
ADRENAL GLANDS	0.0666	0.019		CECUM COLON DUODENUM ESOPHAGUS	
PITUITARY	0.0168	0.005		EYES/OPTIC N. HEART ILEUM JEJUNUM	
FINAL BODY WT(G)	345.			KIDNEYS LIVER LYMPH NODE, MES LUNGS	
				MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES	
				PANCREAS PITUITARY RECTUM SPINAL CORD	
				SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN	
				SPLEEN THYROID GLANDS THYMUS TRACHEA	
				URINARY BLADDER UTERUS VAGINA CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74857-14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	1.93	0.568		0,0	
LIVER	10.30	3.029	GENERAL COMMENT	MICRO: ESTROUS CYCLE: PROESTRUS	P
KIDNEYS	2.11	0.621	KIDNEYS	MICRO: INFLAMMATION, SUBACUTE	1
SPLEEN	0.50	0.147	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
UTERUS/CX/OD	0.92	0.271	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
THYMUS	0.1825	0.054		CONSISTENT WITH PROESTRUS	
OVARIES	0.1250	0.037	NO SIGNIFICANT		
ADRENAL GLANDS	0.0869	0.026	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
PITUITARY	0.0230	0.007		AORTA	STERNEBRAE
FINAL BODY WT(G)	340.			CECUM	BRAIN
				EYES/OPTIC N.	DUODENUM
				HEART	ESOPHAGUS
				KIDNEYS	JEJUNUM
				LIVER	ILEUM
				MAMMARY GLAND	LYMPH NODE, MES
				NERVE, SCIATIC	LUNGS
				PITUITARY	OVARIES
				RECTUM	SPINAL CORD
				SKELETAL MUSCLE	SKIN
				STOMACH	TRACHEA
				THYROID GLANDS	THYMUS
				THYMUS	VAGINA
				UTERUS	CERVIX
				ADRENAL MEDULLA	BRAIN
				PITUITARY	SPLEEN
				SPLEEN	THYMUS
				VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74857-09 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				P
BRAIN	1.86	0.590		7,6				
LIVER	12.85	4.079	NO SIGNIFICANT					
KIDNEYS	2.29	0.727	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
SPLEEN	0.60	0.190		CECUM	COLON	DUODENUM	ESOPHAGUS	
UTERUS/CX/OD	0.72	0.229		EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
THYMUS	0.3503	0.111		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS	
OVARIES	0.1310	0.042		MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES	
ADRENAL GLANDS	0.0695	0.022		PANCREAS	PITUITARY	RECTUM	SPINAL CORD	
PITUITARY	0.0208	0.007		SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN	
FINAL BODY WT(G)	315.			SPLEEN	THYROID GLANDS	THYMUS	TRACHEA	
				URINARY BLADDER	UTERUS	VAGINA	CERVIX	

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74860-08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	P
BRAIN	2.02	0.599		9,4	
LIVER	10.48	3.110	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P
KIDNEYS	2.27	0.674	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
SPLEEN	0.54	0.160	THYMUS	MICRO: HEMORRHAGE	1
UTERUS/CX/OD	0.71	0.211	VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED	
THYMUS	0.3466	0.103		CONSISTENT WITH DIESTRUS	
OVARIES	0.1215	0.036	NO SIGNIFICANT		
ADRENAL GLANDS	0.0791	0.023	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	
PITUITARY	0.0191	0.006		AORTA	STERNEBRAE
FINAL BODY WT(G)	337.			CECUM	BRAIN
				EYES/OPTIC N.	DUODENUM
				KIDNEYS	ESOPHAGUS
				MAMMARY GLAND	JEJUNUM
				PANCREAS	ILEUM
				SAL. GLAND MAND	LIVER
				SPLEEN	LYMPH NODE, MES
				URINARY BLADDER	LUNGS
				MICRO:ADRENAL CORTEX	OVARIES
				OVIDUCTS	RECTUM
				UTERUS	SPINAL CORD
					SKIN
					TRACHEA
					CERVIX
					KIDNEYS
					SPLEEN
					CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74862-13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/28/02 DATE OF DEATH: 05/28/02 STUDY DAY: 266  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)			
BRAIN	1.90	0.619		10,5	P		
LIVER	11.96	3.896	GENERAL COMMENT	MICRO: ESTROUS CYCLE: DIESTRUS	P		
KIDNEYS	2.26	0.736	KIDNEYS	MICRO: BASOPHILIC TUBULES	1		
SPLEEN	0.75	0.244		INFLAMMATION, SUBACUTE	1		
UTERUS/CX/OD	0.67	0.218	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1		
THYMUS	0.4220	0.137	SPLEEN	GROSS: AREA(S), WHITE	P		
OVARIES	0.1429	0.047		FEW, 1 MM IN DIAMETER			
ADRENAL GLANDS	0.0711	0.023	SPLEEN	MICRO: FIBROSIS, CAPSULAR	2		
PITUITARY	0.0167	0.005		FOCAL; CORRELATES TO GROSS WHITE AREA			
FINAL BODY WT(G)	307.		THYMUS	MICRO: HEMORRHAGE	1		
			UTERUS	MICRO: IMPLANTATION SITE	P		
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED			
				CONSISTENT WITH DIESTRUS			
			NO SIGNIFICANT				
			CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN
				CECUM	COLON	DUODENUM	ESOPHAGUS
				EYES/OPTIC N.	HEART	ILEUM	JEJUNUM
				KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
				MAMMARY GLAND	NERVE, SCIATIC	OVIDUCTS	OVARIES
				PANCREAS	PITUITARY	RECTUM	SPINAL CORD
				SAL. GLAND MAND	STOMACH	SKELETAL MUSCLE	SKIN
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER
				UTERUS	VAGINA	CERVIX	
				MICRO:ADRENAL CORTEX	ADRENAL MEDULLA	BRAIN	OVIDUCTS
				OVARIES	PITUITARY	VAGINA	CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74866-16 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/30/02 DATE OF DEATH: 05/30/02 STUDY DAY: 268  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)	GRADE
BRAIN	2.01	0.584		8,6	P
LIVER	10.89	3.166	GENERAL COMMENT	MICRO: ESTROUS CYCLE: METESTRUS	P
KIDNEYS	2.16	0.628	EAR(S)	GROSS: SWOLLEN	P
SPLEEN	0.70	0.203		BILATERAL	
UTERUS/CX/OD	0.64	0.186	EAR(S)	MICRO: CHONDROPATHY, AURICULAR	2
THYMUS	0.2388	0.069		CORRELATES TO GROSS SWOLLEN APPEARANCE	
OVARIES	0.1563	0.045	KIDNEYS	MICRO: BASOPHILIC TUBULES	1
ADRENAL GLANDS	0.0815	0.024		INFLAMMATION, SUBACUTE	1
PITUITARY	0.0206	0.006	LIVER	MICRO: INFILTRATE, MONONUCLEAR	1
FINAL BODY WT(G)	344.		THYMUS	MICRO: HEMORRHAGE	1
			VAGINA	MICRO: NO SIGNIFICANT CHANGES OBSERVED CONSISTENT WITH METESTRUS	

NO SIGNIFICANT  
 CHANGES OBSERVED GROSS:ADRENAL GLANDS AORTA STERNEBRAE BRAIN  
 CECUM COLON DUODENUM ESOPHAGUS  
 EYES/OPTIC N. HEART ILEUM JEJUNUM  
 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
 MAMMARY GLAND NERVE, SCIATIC OVIDUCTS OVARIES  
 PANCREAS PITUITARY RECTUM SPINAL CORD  
 SAL. GLAND MAND STOMACH SKELETAL MUSCLE SKIN  
 SPLEEN THYROID GLANDS THYMUS TRACHEA  
 URINARY BLADDER UTERUS VAGINA CERVIX  
 MICRO:ADRENAL CORTEX ADRENAL MEDULLA BRAIN OVIDUCTS  
 OVARIES PITUITARY SPLEEN UTERUS  
 VAGINA CERVIX

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 217 (F1 FEMALES - SCHEDULED NECROPSY)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC AND MICROSCOPIC FINDINGS

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ANIMAL NO.74870-03 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/31/02 DATE OF DEATH: 05/31/02 STUDY DAY: 269  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	GENERAL COMMENT	GROSS: FORMER IMPLANTATION SITES (LEFT,RIGHT)				
BRAIN	1.98	0.500		7,11				P
LIVER	14.71	3.715	KIDNEYS	GROSS: AREA(S), DEPRESSED				P
KIDNEYS	2.55	0.644		FEW, IRREGULARLY SHAPED, IN CORTEX, RIGHT				
SPLEEN	0.70	0.177	KIDNEYS	MICRO: BASOPHILIC TUBULES				1
UTERUS/CX/OD	0.72	0.182		INFLAMMATION, SUBACUTE				1
THYMUS	0.4914	0.124		NO CORRELATE TO GROSS DEPRESSED AREAS				
OVARIES	0.1393	0.035	NO SIGNIFICANT					
ADRENAL GLANDS	0.0867	0.022	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	AORTA	STERNEBRAE	BRAIN	
PITUITARY	0.0210	0.005		CECUM	COLON	DUODENUM	ESOPHAGUS	
FINAL BODY WT(G)	396.			EYES/OPTIC N.	HEART	ILEUM	JEJUNUM	
				LIVER	LYMPH NODE, MES	LUNGS	MAMMARY GLAND	
				NERVE, SCIATIC	OVIDUCTS	OVARIES	PANCREAS	
				PITUITARY	RECTUM	SPINAL CORD	SAL. GLAND MAND	
				STOMACH	SKELETAL MUSCLE	SKIN	SPLEEN	
				THYROID GLANDS	THYMUS	TRACHEA	URINARY BLADDER	
				UTERUS	VAGINA	CERVIX		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

MICRO GRADE CODE: 1-MINIMAL, 2-MILD, 3-MODERATE, 4-SEVERE, P-PRESENT

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DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES	0 PPM
74737-10	15	15	0	
74759-09	13	13	0	
74764-10	15	15	0	
74767-16	16	16	0	
74767-10	17	12	5	
74772-09	15	14	1	
74773-15	16	6	10	
74773-08	17	15	2	
74789-10	14	14	0	
74789-09	16	15	1	
74804-11	9	8	1	
74804-08	16	15	1	
74808-13	18	15	3	
74808-11	17	16	1	
74810-16	12	12	0	
74826-08	15	15	0	
74829-11	16	17	NA	
74840-03	6	6	0	
74841-12	14	14	0	
74844-07	13	13	0	
74845-07	14	14	0	
74867-07	9	9	0	
MEAN	14.2	13.1	1.2	
S.D.	2.98	3.14	2.38	
N	22	22	21	

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.  
 NA = NOT APPLICABLE - NUMBER OF PUPS BORN EXCEEDED NUMBER OF IMPLANTATION SITES; VALUE NOT INCLUDED IN CALCULATION OF MEAN

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 218 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL IMPLANTATION SITES

PAGE 2

500 PPM

DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74742-18	12	12	0
74746-10	17	17	0
74753-12	17	17	0
74761-12	12	11	1
74762-11	14	14	0
74782-09	10	10	0
74785-08	14	13	1
74790-15	18	16	2
74790-14	14	12	2
74796-15	19	17	2
74798-13	17	15	2
74798-12	16	14	2
74802-10	15	14	1
74809-08	16	14	2
74816-12	20	16	4
74819-10	16	16	0
74823-12	16	15	1
74835-07	14	13	1
74838-11	17	17	0
74846-07	13	13	0
74856-15	13	13	0
74859-09	15	15	0
74859-12	14	13	1
74861-05	7	5	2
74869-04	16	16	0
MEAN	14.9	13.9	1.0
S.D.	2.82	2.69	1.06
N	25	25	25

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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1000 PPM

DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74738-07	13	13	0
74738-12	14	13	1
74743-08	15	15	0
74748-11	15	15	0
74752-10	18	17	1
74780-04	16	14	2
74791-13	12	12	0
74793-14	13	13	0
74799-14	15	15	0
74806-11	14	13	1
74820-12	14	13	1
74821-09	14	13	1
74821-07	18	17	1
74831-12	18	18	0
74834-07	9	9	0
74847-09	17	14	3
74848-04	18	18	0
74849-07	14	14	0
74850-11	14	13	1
74850-14	14	12	2
74855-11	13	13	0
74868-20	13	12	1
74871-09	16	14	2
MEAN	14.7	13.9	0.7
S.D.	2.21	2.11	0.86
N	23	23	23

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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TABLE 218 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL IMPLANTATION SITES

PAGE 4

2500 PPM

DAM NO.	IMPLANTATION SITES	PUPS BORN	UNACCOUNTED SITES
74751-13	15	15	0
74754-15	15	15	0
74768-11	17	17	0
74769-08	16	11	5
74770-11	17	15	2
74770-10	16	16	0
74786-10	18	18	0
74792-12	14	14	0
74807-08	18	16	2
74811-13	13	10	3
74817-13	16	16	0
74822-08	14	14	0
74827-11	13	11	2
74832-07	14	14	0
74833-11	14	14	0
74836-12	15	15	0
74836-11	16	16	0
74853-11	18	17	1
74853-12	8	8	0
74857-09	13	12	1
74860-08	13	13	0
74862-13	15	14	1
74866-16	14	13	1
74870-03	18	16	2
MEAN	15.0	14.2	0.8
S.D.	2.27	2.41	1.27
N	24	24	24

NOTE: ONLY DAMS THAT HAVE DELIVERED ONE OR MORE PUPS ARE INCLUDED IN CALCULATION OF MEAN.

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SPONSOR:ACC

TABLE 219 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OVARIAN PRIMORDIAL FOLLICLE COUNTS AND CORPORA LUTEA COUNTS

PAGE 1

FEMALE GROUP: 0 PPM

ANIMAL	PRIMORDIAL FOLLICLES	CORPORA LUTEA
74737-14	69	256
74737-10	103	174
74740-07	191	52
74757-11	99	110
74759-09	83	252
74764-10	147	128
74767-16	102	195
74767-10	66	185
74772-09	52	186
74773-15	172	174
74773-08	148	195
74774-15	75	135
74789-10	218	198
74789-09	167	217
74804-11	100	100
74804-08	113	195
74808-13	99	163
74808-11	73	182
74810-16	209	152
74826-11	160	11
74826-08	76	202

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TABLE 219 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OVARIAN PRIMORDIAL FOLLICLE COUNTS AND CORPORA LUTEA COUNTS

PAGE 2

FEMALE GROUP: 0 PPM

ANIMAL	PRIMORDIAL FOLLICLES	CORPORA LUTEA
74829-11	70	141
74840-03	87	128
74841-12	110	181
74844-05	94	5
74844-07	107	168
74845-07	71	175
74854-08	99	167
74864-15	104	136
74867-07	173	185
MEAN	114.6	158.3
S.D.	45.40	58.42
N	30	30

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TABLE 219 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OVARIAN PRIMORDIAL FOLLICLE COUNTS AND CORPORA LUTEA COUNTS

PAGE 3

FEMALE GROUP: 2500 PPM

ANIMAL	PRIMORDIAL FOLLICLES	CORPORA LUTEA
74747-17	161	114
74751-13	113	165
74754-15	136	199
74755-01	131	157
74768-11	137	229
74769-08	130	155
74770-11	174	169
74770-10	100	232
74786-10	181	228
74787-10	102	226
74792-11	144	76
74792-12	164	117
74807-08	133	145
74811-13	76	154
74813-12	198	0
74817-13	74	220
74822-08	131	231
74827-11	182	262
74832-07	202	151
74833-11	77	191
74836-12	127	191
74836-11	86	178

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TABLE 219 (F1 FEMALES - SCHEDULED NECROPSY)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OVARIAN PRIMORDIAL FOLLICLE COUNTS AND CORPORA LUTEA COUNTS

PAGE 4

FEMALE GROUP: 2500 PPM

ANIMAL	PRIMORDIAL FOLLICLES	CORPORA LUTEA
74853-11	58	241
74853-12	104	242
74857-14	87	181
74857-09	115	135
74860-08	98	169
74862-13	86	164
74866-16	102	192
74870-03	116	185
MEAN	124.2	176.6
S.D.	38.53	54.66
N	30	30

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R:11/05/2002

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**FINAL REPORT**

Volume 9 of 10  
(Individual Tables 220-233)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

**TABLES 220 - 233**

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74737-03	585.	2.03	20.84	3.70	0.81	2.82	1.41	1.95
74740-02	507.	1.97	19.19	3.55	0.79	2.40	0.95	1.64
74757-08	596.	2.02	18.00	4.10	0.91	2.10	1.13	1.83
74757-05	601.	2.16	21.94	3.93	1.07	1.86	1.45	1.96
74759-02	517.	2.09	20.36	3.38	0.66	2.29	1.39	1.73
74759-05	507.	2.09	19.04	3.22	0.85	2.46	0.68	1.62
74764-02	571.	1.97	20.83	3.83	0.83	2.87	1.22	1.77
74767-07	487.	2.03	15.65	3.17	0.74	2.85	1.04	1.86
74772-02	568.	2.34	23.83	3.98	0.99	2.41	1.50	1.92
74772-08	555.	2.29	21.21	4.05	1.01	1.75	0.88	0.57
74773-02	502.	2.47	13.87	3.53	0.83	2.31	1.58	1.94
74774-03	609.	2.12	18.62	3.90	0.81	2.29	1.06	1.82
74789-04	491.	1.89	19.23	3.32	0.80	2.09	1.19	1.59
74804-04	529.	2.03	16.23	3.17	0.62	2.18	1.31	1.66
74808-01	570.	2.07	21.48	3.88	0.78	3.18	0.95	1.83
74810-07	501.	2.07	17.09	3.96	0.99	2.54	1.44	1.98
74810-02	572.	2.02	18.10	3.80	1.00	2.03	0.61	2.27
74826-05	525.	2.14	17.34	4.16	0.69	2.99	1.19	1.88
74829-05	499.	2.15	15.34	3.31	0.68	1.16	0.83	1.90
74840-02	518.	2.11	21.86	3.89	0.84	3.06	1.46	1.95
74841-02	541.	2.18	17.92	3.54	0.89	2.50	1.49	1.92
74841-06	512.	2.21	17.57	3.43	0.78	2.06	1.33	1.51
74844-04	504.	2.02	19.39	3.61	0.75	2.04	1.06	1.81
74845-01	542.	2.10	19.48	3.45	0.98	2.94	1.47	1.90
74845-03	532.	1.96	19.39	3.05	0.80	1.63	0.65	1.90
74854-06	515.	2.11	15.78	3.46	0.99	2.73	1.33	1.86

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74854-02	604.	1.97	21.98	3.72	0.99	1.46	1.39	1.83
74864-06	556.	2.01	19.87	3.44	0.92	2.00	0.80	1.73
74867-03	639.	2.27	19.94	4.16	0.88	2.13	1.24	1.86
74867-01	644.	2.09	21.80	3.88	0.92	1.96	0.98	1.78
MEAN	547.	2.10	19.11	3.65	0.85	2.30	1.17	1.79
S.D.	44.5	0.124	2.341	0.320	0.117	0.489	0.280	0.272
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74742-03	441.	1.84	14.97	3.18	0.72	2.37	0.90	1.67
74746-06	448.	1.81	12.53	2.99	0.76	2.38	1.08	1.41
74753-04	543.	2.07	17.33	3.39	0.81	2.59	1.12	1.86
74753-02	488.	2.02	17.46	3.50	0.90	1.88	1.27	1.71
74761-09	418.	1.78	15.30	2.27	0.77	1.70	0.91	1.36
74762-04	433.	2.11	14.96	2.59	0.72	2.63	1.21	1.67
74790-09	547.	2.10	16.78	3.25	0.82	2.59	1.51	1.79
74782-04	426.	1.91	13.18	3.23	0.71	1.65	1.04	1.34
74785-04	515.	2.02	18.34	3.05	0.78	2.25	1.10	1.61
74790-02	573.	2.17	18.78	3.99	0.78	2.38	1.53	1.83
74796-07	487.	1.82	15.58	2.56	0.65	2.22	1.20	1.50
74797-09	565.	2.01	20.65	4.11	0.75	2.22	1.10	1.80
74798-04	503.	2.14	21.89	3.83	0.83	2.18	1.48	1.51
74802-05	528.	2.05	18.36	3.52	0.83	2.31	1.12	1.98
74802-08	449.	2.04	16.46	3.39	0.86	1.85	1.42	2.03
74809-09	558.	2.24	15.47	3.61	0.78	2.34	1.18	1.73
74816-05	512.	1.90	15.26	3.79	0.77	1.84	1.15	1.68
74819-03	529.	2.26	20.73	4.06	0.89	2.80	1.41	2.18
74823-01	466.	2.10	15.01	3.45	0.80	2.34	1.19	1.78
74824-05	475.	1.95	17.18	3.79	0.71	2.53	1.38	0.64
74835-03	547.	1.97	18.61	3.38	0.83	1.88	0.88	1.62
74838-06	462.	2.18	15.53	3.17	0.82	2.63	1.23	1.55
74839-02	528.	2.12	16.56	4.04	0.82	2.03	1.18	1.66
74846-03	581.	2.27	18.01	3.92	0.82	2.87	0.93	1.79
74856-06	438.	1.98	15.66	3.18	0.80	2.58	1.02	1.63
74859-06	439.	1.95	16.89	2.88	0.70	2.50	1.10	1.51

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74861-02	470.	2.13	13.70	3.18	0.67	1.88	0.39	1.43
74863-05	558.	2.18	21.21	3.88	0.79	2.30	1.26	1.87
74863-02	557.	2.13	22.63	3.71	0.75	2.38	1.66	1.86
74869-02	532.	2.16	19.76	3.82	0.79	2.02	1.12	1.99
MEAN	501.	2.05	17.16	3.42	0.78	2.27	1.17	1.67
S.D.	50.4	0.135	2.564	0.472	0.060	0.324	0.244	0.281
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74738-02	499.	2.14	19.10	3.22	0.79	1.89	0.71	1.61
74739-04	493.	2.05	16.95	3.45	0.74	2.48	1.05	1.74
74743-04	482.	2.04	16.59	3.20	0.83	1.43	0.95	1.66
74744-02	408.	2.16	17.89	2.92	0.72	1.95	0.88	1.27
74748-05	459.	1.99	15.46	2.73	0.78	1.39	1.02	1.52
74748-02	395.	1.89	12.64	2.23	0.69	2.39	0.89	1.59
74752-05	528.	1.97	17.85	3.30	0.82	1.96	1.34	1.71
74766-02	501.	2.12	15.40	3.08	0.89	1.94	1.35	1.79
74780-03	585.	2.14	19.72	4.09	0.93	2.03	0.69	1.80
74791-05	450.	1.96	16.32	3.05	0.65	2.86	1.26	1.55
74791-02	498.	1.92	17.77	3.37	0.71	2.25	1.32	1.58
74793-05	483.	2.11	15.26	3.84	0.83	2.21	0.75	1.82
74795-06	533.	2.15	18.70	3.28	0.73	2.95	1.09	1.84
74799-03	548.	2.06	17.74	4.04	0.78	2.50	1.35	1.81
74801-10	503.	2.17	17.58	3.90	1.01	2.33	1.42	1.95
74806-06	534.	2.22	19.85	3.14	0.95	2.05	1.38	1.62
74806-03	548.	1.95	15.91	3.29	0.82	2.26	1.31	1.75
74820-02	533.	2.06	16.57	3.40	0.68	2.20	0.91	1.89
74821-02	492.	2.13	18.08	3.81	0.76	2.57	1.24	1.81
74830-02	523.	1.96	16.70	3.60	0.82	2.23	1.20	1.86
74831-02	522.	2.13	17.53	3.73	1.02	2.77	0.81	1.79
74834-04	612.	2.48	23.36	4.24	0.88	1.75	1.52	1.78
74847-03	560.	1.94	19.15	3.54	0.76	2.36	1.28	1.73
74848-03	603.	2.00	23.65	3.80	0.86	2.16	1.16	1.85
74849-03	563.	2.13	23.32	3.72	0.85	2.27	0.93	1.66
74850-05	463.	1.95	16.04	3.06	0.74	2.26	1.20	1.47

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74855-08	547.	2.05	18.66	3.55	0.96	2.35	1.54	1.78
74858-04	534.	2.10	18.01	3.71	0.81	2.56	1.01	1.67
74868-02	405.	1.86	11.65	2.48	0.71	2.19	0.97	1.46
74871-06	486.	2.13	16.82	3.76	0.74	2.78	1.57	1.65
MEAN	510.	2.07	17.68	3.42	0.81	2.24	1.14	1.70
S.D.	53.6	0.123	2.660	0.466	0.097	0.369	0.252	0.149
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74747-04	520.	1.89	18.03	3.45	0.67	2.27	0.93	1.58
74747-03	569.	2.16	18.81	3.55	0.82	2.79	0.68	1.38
74751-05	547.	2.16	17.67	3.26	0.77	2.24	1.31	1.82
74751-02	517.	2.09	17.99	3.36	0.77	2.18	1.20	1.94
74754-09	458.	2.08	13.31	3.26	0.69	2.57	1.03	1.87
74755-05	564.	2.08	19.30	4.11	0.78	3.23	1.62	1.87
74768-02	578.	2.28	18.85	3.55	0.72	2.33	1.17	1.78
74769-07	460.	2.02	14.91	3.53	0.72	2.28	1.02	1.81
74770-06	623.	2.09	22.34	4.14	0.80	2.13	1.01	1.68
74786-05	644.	2.02	22.78	4.11	1.01	1.97	1.50	1.84
74786-07	480.	1.86	14.47	3.49	0.76	2.32	1.76	1.81
74787-06	439.	2.14	16.05	3.53	0.82	1.99	0.74	1.62
74792-03	551.	1.99	19.29	3.62	0.85	1.50	0.86	1.73
74807-05	417.	1.92	15.09	2.75	0.69	2.19	1.50	1.60
74811-01	582.	2.08	22.35	3.87	0.81	2.27	1.33	1.71
74813-08	500.	2.03	17.32	3.42	0.69	1.89	1.27	1.73
74817-04	533.	2.07	16.84	3.43	0.78	1.97	1.14	1.67
74822-15	417.	2.08	17.11	3.85	0.76	2.75	1.30	1.82
74822-14	520.	2.11	21.79	4.43	1.03	2.91	1.03	1.69
74827-03	387.	1.83	11.86	2.77	0.51	2.69	1.22	1.64
74832-03	559.	2.09	21.26	3.77	1.10	2.14	1.42	1.67
74833-02	522.	2.14	17.53	3.51	0.84	2.35	1.18	1.69
74836-08	607.	2.12	18.82	3.96	0.72	1.98	1.24	1.79
74853-06	512.	2.15	16.11	3.54	0.95	2.41	1.43	1.77
74857-10	620.	2.02	21.28	4.04	1.09	2.57	1.33	1.97
74860-03	576.	2.05	18.29	3.46	0.81	2.19	1.09	1.83

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74860-02	571.	2.03	20.90	3.77	0.84	1.97	1.13	1.87
74862-08	487.	1.95	15.34	3.33	0.98	2.85	1.22	1.85
74866-01	620.	2.06	18.56	3.42	0.86	2.02	1.02	1.77
74870-06	625.	2.00	24.75	4.21	1.05	2.18	0.99	1.85
MEAN	534.	2.05	18.30	3.62	0.82	2.30	1.19	1.76
S.D.	68.4	0.096	3.000	0.386	0.137	0.363	0.244	0.121
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74737-03	1.95	0.70	0.71	0.3244	0.2974	0.2013	0.0546	0.0170
74740-02	1.74	0.72	0.70	0.2888	0.3300	0.2739	0.0362	0.0148
74757-08	1.83	0.78	0.68	0.2992	0.3188	0.2208	0.0718	0.0165
74757-05	1.92	0.78	0.78	0.3322	0.3144	0.2250	0.0839	0.0183
74759-02	1.73	0.68	0.71	0.3119	0.3122	0.2029	0.0581	0.0168
74759-05	1.57	0.80	0.77	0.3231	0.3405	0.3591	0.0597	0.0154
74764-02	1.77	0.69	0.73	0.3536	0.3471	0.2115	0.0744	0.0194
74767-07	1.91	0.78	0.79	0.3335	0.3233	0.1210	0.0561	0.0149
74772-02	2.06	0.79	0.82	0.3298	0.3743	0.1980	0.0569	0.0184
74772-08	0.69	0.37	0.36	0.1411	0.1411	0.2634	0.0542	0.0165
74773-02	1.95	0.77	0.72	0.2716	0.2936	0.1693	0.0698	0.0157
74774-03	1.89	0.64	0.72	0.2953	0.3387	0.3036	0.0516	0.0154
74789-04	1.63	0.63	0.63	0.3080	0.3267	0.3089	0.0541	0.0164
74804-04	1.63	0.72	0.69	0.3173	0.3200	0.3537	0.0449	0.0133
74808-01	1.82	0.73	0.82	0.3254	0.3541	0.2078	0.0495	0.0139
74810-07	1.96	0.76	0.75	0.3378	0.3356	0.1546	0.0628	0.0123
74810-02	1.82	0.71	0.62	0.2393	0.2460	0.2094	0.0491	0.0152
74826-05	1.93	0.70	0.74	0.3514	0.3280	0.1789	0.0763	0.0183
74829-05	1.89	0.80	0.71	0.3347	0.2823	0.1564	0.0599	0.0152
74840-02	2.02	0.77	0.80	0.3860	0.4225	0.2616	0.0660	0.0147
74841-02	1.93	0.82	0.75	0.3464	0.3397	0.2281	0.0422	0.0165
74841-06	1.64	0.75	0.75	0.3642	0.3639	0.2858	0.0506	0.0145
74844-04	1.86	0.69	0.68	0.3149	0.3110	0.1357	0.0571	0.0144
74845-01	1.86	0.75	0.81	0.2916	0.3094	0.1592	0.0585	0.0208
74845-03	1.90	0.83	0.81	0.3750	0.2995	0.2155	0.0513	0.0148
74854-06	1.87	0.77	0.73	0.3249	0.3085	0.1710	0.0605	0.0170

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74854-02	1.73	0.72	0.83	0.3435	0.3552	0.2451	0.0513	0.0153
74864-06	1.76	0.72	0.78	0.3116	0.3745	0.2893	0.0734	0.0148
74867-03	1.91	0.75	0.81	0.3557	0.3518	0.2531	0.0678	0.0179
74867-01	1.77	0.81	0.73	0.3507	0.3183	0.2018	0.0386	0.0133
MEAN	1.80	0.73	0.73	0.3194	0.3226	0.2255	0.0580	0.0159
S.D.	0.241	0.085	0.089	0.04546	0.04730	0.06048	0.01129	0.00190
N	30	30	30	30	30	30	30	30

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74742-03	1.57	0.63	0.70	0.3275	0.3354	0.2874	0.0511	0.0135
74746-06	1.46	0.66	0.66	0.2751	0.3096	0.2235	0.0469	0.0144
74753-04	1.81	0.71	0.78	0.3361	0.3799	0.3201	0.0761	0.0134
74753-02	1.77	0.73	0.80	0.3850	0.3663	0.3143	0.0678	0.0117
74761-09	1.40	0.61	0.60	0.2544	0.2540	0.2419	0.0502	0.0117
74762-04	1.61	0.61	0.64	0.2747	0.2617	0.2951	0.0469	0.0123
74790-09	1.87	0.78	0.72	0.3136	0.3401	0.4034	0.0612	0.0147
74782-04	1.33	0.59	0.51	0.2230	0.2219	0.3346	0.0648	0.0130
74785-04	1.69	0.70	0.67	0.2835	0.2933	0.1991	0.0489	0.0167
74790-02	1.86	0.69	0.74	0.2892	0.3201	0.2914	0.0583	0.0125
74796-07	1.46	0.59	0.64	0.2880	0.2580	0.2381	0.0526	0.0190
74797-09	1.82	0.73	0.68	0.3378	0.3192	0.2431	0.0543	0.0158
74798-04	1.54	0.62	0.64	0.2821	0.2434	0.2623	0.0668	0.0144
74802-05	1.98	0.74	0.79	0.3168	0.3776	0.3970	0.0632	0.0173
74802-08	1.98	0.77	0.74	0.3365	0.2984	0.2539	0.0582	0.0172
74809-09	1.78	0.74	0.70	0.2771	0.3032	0.2617	0.0595	0.0197
74816-05	1.62	0.65	0.62	0.3012	0.2822	0.2056	0.0527	0.0152
74819-03	2.12	0.90	0.81	0.4163	0.3150	0.1650	0.0590	0.0130
74823-01	1.81	0.79	0.76	0.3002	0.3889	0.2094	0.0605	0.0140
74824-05	0.91	0.44	0.50	0.1980	0.1748	0.3276	0.0574	0.0130
74835-03	1.68	0.69	0.75	0.2988	0.3788	0.2454	0.0412	0.0138
74838-06	1.61	0.68	0.68	0.3255	0.2896	0.1953	0.0636	0.0170
74839-02	1.65	0.76	0.70	0.3607	0.3351	0.2056	0.0622	0.0166
74846-03	1.80	0.71	0.75	0.3273	0.3824	0.2688	0.0646	0.0189
74856-06	1.65	0.69	0.71	0.3102	0.3506	0.2454	0.0579	0.0133
74859-06	1.56	0.60	0.61	0.2765	0.3230	0.1881	0.0600	0.0144

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74861-02	1.47	0.65	0.62	0.2719	0.2971	0.3678	0.0508	0.0119
74863-05	1.98	0.85	0.94	0.4122	0.4276	0.2000	0.0759	0.0149
74863-02	1.87	0.85	0.82	0.3910	0.3981	0.1243	0.0681	0.0167
74869-02	2.00	0.75	0.80	0.3583	0.3968	0.4233	0.0655	0.0128
MEAN	1.69	0.70	0.70	0.3116	0.3207	0.2646	0.0589	0.0148
S.D.	0.246	0.093	0.093	0.05046	0.05848	0.07245	0.00828	0.00226
N	30	30	30	30	30	30	30	30

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74738-02	1.55	0.66	0.66	0.2892	0.3233	0.2153	0.0518	0.0138
74739-04	1.83	0.66	0.81	0.3347	0.3661	0.2694	0.0644	0.0195
74743-04	1.72	0.73	0.59	0.2824	0.2556	0.1553	0.0462	0.0138
74744-02	1.28	0.51	0.57	0.2139	0.2692	0.1950	0.0574	0.0113
74748-05	1.59	0.67	0.65	0.2797	0.3022	0.2504	0.0536	0.0137
74748-02	1.59	0.69	0.68	0.3202	0.3152	0.1543	0.0503	0.0111
74752-05	1.65	0.68	0.67	0.3099	0.3046	0.2124	0.0506	0.0159
74766-02	1.85	0.70	0.75	0.2941	0.3325	0.4197	0.0541	0.0143
74780-03	1.77	0.71	0.64	0.2149	0.2539	0.2475	0.0622	0.0185
74791-05	1.56	0.73	0.65	0.2924	0.3013	0.1491	0.0498	0.0144
74791-02	1.50	0.70	0.68	0.3327	0.3005	0.2931	0.0495	0.0141
74793-05	1.79	0.72	0.72	0.3200	0.3158	0.2285	0.0611	0.0144
74795-06	1.81	0.70	0.72	0.3550	0.3915	0.2639	0.0612	0.0200
74799-03	1.81	0.73	0.62	0.3414	0.2919	0.2466	0.0579	0.0158
74801-10	1.85	0.79	0.78	0.3735	0.3541	0.2022	0.0777	0.0155
74806-06	1.59	0.66	0.74	0.3031	0.3503	0.2732	0.0628	0.0177
74806-03	1.71	0.71	0.72	0.2449	0.3665	0.2175	0.0572	0.0116
74820-02	1.86	0.84	0.67	0.3554	0.3378	0.2598	0.0506	0.0122
74821-02	1.84	0.67	0.70	0.3136	0.3557	0.2388	0.0744	0.0195
74830-02	1.89	0.75	0.77	0.3337	0.3498	0.2919	0.0553	0.0160
74831-02	1.81	0.74	0.75	0.3546	0.3952	0.1964	0.0532	0.0159
74834-04	1.75	0.70	0.73	0.3078	0.3112	0.2763	0.0796	0.0204
74847-03	1.76	0.68	0.63	0.2396	0.2644	0.2326	0.0446	0.0141
74848-03	1.85	0.72	0.66	0.3565	0.3088	0.2083	0.0561	0.0157
74849-03	1.69	0.75	0.69	0.3338	0.3069	0.1835	0.0503	0.0113
74850-05	1.41	0.67	0.61	0.3020	0.2919	0.1742	0.0383	0.0100

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 14

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74855-08	1.78	0.77	0.70	0.3284	0.3323	0.2090	0.0681	0.0187
74858-04	1.62	0.62	0.65	0.2306	0.2715	0.1553	0.0581	0.0150
74868-02	1.41	0.52	0.62	0.2618	0.2997	0.2759	0.0560	0.0141
74871-06	1.60	0.71	0.70	0.2737	0.2910	0.1813	0.0638	0.0177
MEAN	1.69	0.70	0.68	0.3031	0.3170	0.2292	0.0572	0.0152
S.D.	0.156	0.066	0.058	0.04349	0.03748	0.05582	0.00934	0.00284
N	30	30	30	30	30	30	30	30

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TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74747-04	1.59	0.61	0.61	0.2857	0.2965	0.1926	0.0439	0.0127
74747-03	1.41	0.71	0.71	0.2445	0.2928	0.2517	0.0669	0.0165
74751-05	1.82	0.81	0.83	0.3346	0.3692	0.1753	0.0770	0.0209
74751-02	1.97	0.82	0.80	0.4274	0.4055	0.2262	0.0674	0.0145
74754-09	1.83	0.69	0.67	0.3530	0.2750	0.1918	0.0623	0.0127
74755-05	1.91	0.81	0.74	0.3412	0.3710	0.2132	0.0759	0.0172
74768-02	1.77	0.76	0.66	0.3164	0.2665	0.1577	0.0453	0.0153
74769-07	1.78	0.73	0.78	0.3369	0.3615	0.1845	0.0510	0.0131
74770-06	1.76	0.74	0.77	0.3483	0.3578	0.2594	0.0504	0.0170
74786-05	1.88	0.68	0.74	0.2970	0.2799	0.3656	0.0593	0.0170
74786-07	1.74	0.79	0.76	0.2966	0.3518	0.2431	0.0493	0.0144
74787-06	1.59	0.63	0.64	0.2992	0.3081	0.1375	0.0513	0.0145
74792-03	1.73	0.66	0.71	0.2910	0.2846	0.1800	0.0653	0.0139
74807-05	1.49	0.59	0.60	0.2065	0.2597	0.2403	0.0535	0.0105
74811-01	1.72	0.65	0.65	0.2802	0.2994	0.1841	0.0547	0.0187
74813-08	1.74	0.65	0.71	0.3062	0.3771	0.1647	0.0591	0.0147
74817-04	1.68	0.75	0.63	0.2981	0.2778	0.3329	0.0523	0.0156
74822-15	1.14	0.45	0.34	0.2183	0.1621	0.0885	0.0610	0.0165
74822-14	1.72	0.71	0.72	0.3242	0.3230	0.1227	0.0526	0.0171
74827-03	1.63	0.59	0.56	0.2871	0.3011	0.3071	0.0460	0.0107
74832-03	1.67	0.69	0.72	0.3398	0.3130	0.2250	0.0398	0.0197
74833-02	1.76	0.71	0.66	0.3022	0.3161	0.2097	0.0483	0.0142
74836-08	1.87	0.70	0.81	0.2951	0.3370	0.2820	0.0733	0.0158
74853-06	1.66	0.71	0.75	0.3205	0.3496	0.1680	0.0575	0.0194
74857-10	1.94	0.80	0.79	0.3849	0.3676	0.2501	0.0635	0.0171
74860-03	1.80	0.77	0.76	0.2783	0.3574	0.2179	0.0463	0.0165

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 220 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74860-02	1.94	0.81	0.74	0.2850	0.3340	0.3025	0.0585	0.0159
74862-08	1.81	0.77	0.82	0.3100	0.3844	0.2418	0.0462	0.0156
74866-01	1.75	0.63	0.73	0.2819	0.2360	0.2980	0.0739	0.0140
74870-06	1.92	0.76	0.84	0.3635	0.3980	0.3568	0.0819	0.0162
MEAN	1.73	0.71	0.71	0.3085	0.3205	0.2257	0.0578	0.0156
S.D.	0.172	0.083	0.100	0.04478	0.05332	0.06747	0.01106	0.00241
N	30	30	30	30	30	30	30	30

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TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74737-14	358.	1.88	10.09	1.77	0.68	0.47	0.2657	0.0748	0.0479	0.0206
74737-10	317.	1.97	10.62	2.16	0.55	0.67	0.2417	0.1030	0.0686	0.0180
74740-07	344.	2.02	12.98	2.18	0.64	1.33	0.2252	0.0840	0.0692	0.0244
74757-11	324.	1.98	11.78	2.14	0.63	0.57	0.2241	0.1177	0.0699	0.0263
74759-09	281.	1.97	9.14	2.06	0.51	0.69	0.2510	0.1305	0.0701	0.0163
74764-10	338.	1.92	11.56	2.00	0.50	0.65	0.3738	0.1177	0.0574	0.0211
74767-16	304.	1.86	10.88	2.00	0.65	0.76	0.1500	0.1282	0.0591	0.0186
74767-10	335.	1.99	12.13	2.24	0.61	0.82	0.1646	0.1574	0.0808	0.0229
74772-09	323.	2.13	9.60	2.14	0.67	0.62	0.2204	0.1277	0.0794	0.0226
74773-15	295.	1.84	10.26	2.06	0.73	0.62	0.2232	0.1159	0.0769	0.0159
74773-08	331.	2.04	12.10	2.02	0.68	0.66	0.2891	0.1220	0.0705	0.0195
74774-15	379.	2.06	12.58	2.19	0.65	0.85	0.1881	0.1157	0.0832	0.0207
74789-10	313.	1.96	11.42	1.83	0.54	0.70	0.3794	0.1239	0.0661	0.0180
74789-09	314.	1.91	14.57	2.15	0.66	0.64	0.3773	0.1080	0.0792	0.0199
74804-11	306.	1.85	11.09	2.12	0.56	0.58	0.3983	0.1497	0.0847	0.0191
74804-08	307.	1.94	10.74	1.99	0.48	0.56	0.3414	0.1322	0.0681	0.0178
74808-13	328.	2.04	11.13	2.14	0.66	0.72	0.3384	0.1366	0.0863	0.0167
74808-11	305.	1.78	10.92	2.40	0.62	0.92	0.4047	0.1567	0.0745	0.0189
74810-16	316.	2.00	12.34	2.15	0.66	0.73	0.2353	0.1169	0.0824	0.0210
74826-11	333.	1.93	11.30	2.07	0.52	0.71	0.2065	0.0466	0.0700	0.0184
74826-08	321.	1.90	11.65	2.04	0.57	0.79	0.2420	0.1237	0.0897	0.0199
74829-11	324.	2.03	12.43	2.33	0.75	0.71	0.2770	0.0949	0.0756	0.0213
74840-03	353.	2.13	12.36	2.33	0.68	0.49	0.4103	0.1253	0.0660	0.0224
74841-12	275.	1.93	9.22	1.82	0.56	0.48	0.3061	0.0998	0.0762	0.0224
74844-05	335.	1.75	12.55	2.02	0.51	0.74	0.1705	0.0504	0.0867	0.0296
74844-07	303.	1.83	10.80	1.87	0.47	1.29	0.2751	0.0937	0.0678	0.0143

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SPONSOR:ACC

TABLE 221 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 2

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74845-07	306.	1.82	10.02	2.03	0.62	0.86	0.2733	0.1108	0.0611	0.0229
74854-08	329.	1.87	10.37	2.17	0.69	0.50	0.2015	0.1217	0.0654	0.0163
74864-15	275.	1.84	9.56	1.76	0.57	0.70	0.3315	0.0865	0.0711	0.0153
74867-07	372.	1.99	12.69	2.20	0.60	0.70	0.3284	0.1021	0.0677	0.0170
MEAN	321.	1.94	11.30	2.08	0.61	0.72	0.2771	0.1125	0.0724	0.0199
S.D.	25.0	0.096	1.249	0.159	0.075	0.196	0.07623	0.02624	0.00956	0.00337
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74742-18	236.	1.71	9.67	1.61	0.46	0.66	0.3300	0.0955	0.0520	0.0161
74746-10	341.	1.84	12.45	2.33	0.61	0.69	0.2288	0.1512	0.0600	0.0156
74753-12	337.	1.97	10.99	1.95	0.63	1.21	0.4114	0.1127	0.0801	0.0162
74761-12	271.	1.78	11.01	1.69	0.54	0.79	0.2774	0.0823	0.0702	0.0192
74762-11	293.	1.87	10.19	1.92	0.52	0.91	0.3753	0.0890	0.0649	0.0151
74782-09	257.	1.64	8.42	1.75	0.51	0.56	0.4234	0.1241	0.0611	0.0092
74785-08	292.	1.80	10.53	1.96	0.40	0.86	0.3453	0.1055	0.0871	0.0184
74790-15	290.	2.07	10.96	1.87	0.66	1.32	0.2903	0.1596	0.0806	0.0163
74790-14	311.	1.95	9.99	2.26	0.79	0.83	0.3281	0.1698	0.0850	0.0148
74796-15	392.	2.02	14.29	2.43	0.86	0.64	0.4115	0.1277	0.0717	0.0249
74797-12	272.	1.79	8.91	1.75	0.50	0.49	0.2099	0.0721	0.0612	0.0196
74798-13	298.	1.84	11.42	1.87	0.75	0.64	0.2836	0.0932	0.0554	0.0175
74798-12	332.	1.99	10.96	2.07	0.73	0.74	0.2760	0.1333	0.0541	0.0165
74802-10	290.	1.79	12.86	2.09	0.52	0.73	0.3942	0.1068	0.0625	0.0123
74809-08	292.	2.02	9.21	2.03	0.42	0.77	0.1775	0.0935	0.0569	0.0200
74816-12	305.	1.89	11.03	2.30	0.63	0.88	0.2703	0.0900	0.0787	0.0221
74819-10	303.	2.02	11.11	2.26	0.55	0.85	0.3158	0.1343	0.0696	0.0139
74823-12	310.	1.91	12.95	2.14	0.57	0.55	0.3665	0.1286	0.0714	0.0143
74824-11	314.	1.89	11.34	1.94	0.57	0.66	0.3068	0.0897	0.0783	0.0170
74835-11	222.	1.76	7.69	1.62	0.39	0.56	0.1789	0.0999	0.0529	0.0141
74835-07	313.	1.85	10.36	2.10	0.56	0.81	0.3093	0.1084	0.0690	0.0154
74838-11	301.	1.99	9.97	1.74	0.61	0.66	0.2941	0.1217	0.0716	0.0173
74839-18	308.	2.00	12.23	2.28	0.60	0.77	0.1013	0.1048	0.0978	0.0210
74846-07	298.	1.88	10.98	2.11	0.60	0.54	0.2131	0.1056	0.0722	0.0170
74856-15	295.	1.82	11.08	1.79	0.58	1.13	0.3384	0.1244	0.0802	0.0167
74859-09	316.	2.08	9.71	2.01	0.55	0.49	0.2736	0.1298	0.0827	0.0132

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TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74859-12	352.	1.88	13.68	2.22	0.63	0.98	0.3151	0.0978	0.0627	0.0185
74861-05	275.	1.73	8.05	1.89	0.46	0.53	0.1759	0.0787	0.0683	0.0196
74863-10	351.	2.04	12.07	2.03	0.58	0.78	0.2452	0.1051	0.0974	0.0191
74869-04	337.	1.94	13.48	2.26	0.63	0.45	0.4180	0.1071	0.0811	0.0172
MEAN	303.	1.89	10.92	2.01	0.58	0.75	0.2962	0.1114	0.0712	0.0169
S.D.	34.5	0.114	1.629	0.224	0.108	0.211	0.08088	0.02347	0.01233	0.00310
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74738-07	320.	1.79	15.03	2.17	0.64	0.54	0.2501	0.1032	0.0662	0.0178
74738-12	307.	1.76	11.97	1.87	0.53	1.12	0.2685	0.1137	0.0625	0.0158
74739-08	328.	1.93	11.45	2.03	0.55	0.63	0.2408	0.0941	0.0711	0.0257
74743-08	323.	2.13	13.08	2.10	0.65	0.90	0.2579	0.1273	0.0598	0.0191
74744-16	294.	1.90	10.60	1.92	0.68	0.57	0.2700	0.1020	0.0626	0.0168
74748-11	296.	1.89	11.10	1.89	0.63	0.58	0.2399	0.1240	0.0618	0.0169
74752-10	347.	1.89	13.11	2.12	0.49	0.55	0.2913	0.1187	0.0623	0.0172
74766-13	266.	1.84	9.22	1.58	0.45	0.69	0.3625	0.0722	0.0604	0.0144
74780-04	335.	2.00	11.63	2.34	0.68	0.53	0.2626	0.1273	0.0979	0.0175
74791-13	270.	1.85	10.68	1.93	0.46	0.40	0.2353	0.0959	0.0624	0.0121
74793-14	304.	1.90	11.10	2.17	0.63	0.71	0.4246	0.0996	0.0679	0.0149
74795-09	342.	1.82	10.80	2.11	0.50	0.50	0.2638	0.0824	0.0595	0.0189
74799-14	272.	1.87	8.82	1.75	0.59	0.86	0.2981	0.1147	0.0763	0.0223
74801-14	364.	1.94	13.19	2.59	0.65	0.77	0.3499	0.0680	0.0779	0.0245
74806-11	299.	1.79	8.92	1.95	0.60	1.74	0.3326	0.1063	0.0756	0.0144
74820-12	287.	1.91	9.69	2.05	0.53	0.53	0.2655	0.0940	0.0842	0.0202
74821-09	331.	1.96	10.65	2.07	0.59	0.77	0.2498	0.1080	0.0668	0.0191
74821-07	287.	1.96	10.06	2.11	0.44	0.74	0.2846	0.1244	0.0721	0.0133
74830-11	309.	1.77	10.28	1.91	0.58	0.63	0.2833	0.0866	0.0650	0.0138
74831-12	315.	1.94	11.84	2.23	0.70	0.62	0.2599	0.1497	0.0666	0.0176
74834-07	291.	2.08	11.25	2.17	0.51	0.42	0.2771	0.1046	0.0531	0.0194
74847-09	349.	1.87	11.26	2.26	0.66	0.90	0.3072	0.1213	0.0702	0.0171
74848-04	339.	1.93	11.27	2.29	0.69	0.66	0.3135	0.1324	0.0630	0.0154
74849-07	295.	1.90	10.02	1.88	0.46	0.82	0.2208	0.1022	0.0646	0.0155
74850-11	274.	1.86	9.99	1.79	0.55	0.54	0.1508	0.1096	0.0592	0.0119
74850-14	295.	1.86	12.79	2.23	0.65	0.77	0.2066	0.1071	0.0603	0.0124

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TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74855-11	312.	1.76	10.82	1.92	0.68	0.72	0.3182	0.1294	0.0747	0.0187
74858-14	338.	1.94	12.28	2.09	0.67	0.52	0.2605	0.1222	0.0595	0.0127
74868-20	300.	1.80	11.03	1.87	0.58	0.68	0.6246	0.1244	0.0574	0.0141
74871-09	311.	2.02	14.56	2.13	0.47	0.54	0.2586	0.1344	0.0613	0.0158
MEAN	310.	1.90	11.28	2.05	0.58	0.70	0.2876	0.1100	0.0667	0.0168
S.D.	25.6	0.089	1.499	0.202	0.083	0.252	0.08125	0.01875	0.00911	0.00342
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

TABLE 221 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74747-17	341.	2.13	12.01	2.22	0.59	0.90	0.2299	0.0725	0.1012	0.0238
74751-13	305.	1.93	10.12	1.94	0.55	0.62	0.2539	0.1192	0.0861	0.0172
74754-15	319.	1.80	10.18	1.70	0.76	0.59	0.3060	0.1026	0.0627	0.0141
74755-01	246.	1.87	8.28	1.74	0.52	0.79	0.1462	0.0739	0.0800	0.0150
74768-11	345.	1.96	10.78	2.25	0.51	1.20	0.2111	0.1376	0.0764	0.0119
74769-08	314.	1.91	11.45	1.88	0.76	0.63	0.3481	0.1377	0.0764	0.0157
74770-11	349.	2.03	14.29	2.34	0.68	1.30	0.2927	0.1016	0.0814	0.0173
74770-10	365.	1.97	11.93	2.21	0.61	1.30	0.2274	0.2840	0.0617	0.0164
74786-10	300.	1.92	10.06	2.11	0.61	0.74	0.3520	0.1071	0.0734	0.0265
74787-10	287.	2.01	9.41	2.06	0.61	0.50	0.2338	0.0930	0.0719	0.0125
74792-11	321.	1.88	11.34	2.02	0.77	0.65	0.2856	0.0557	0.0608	0.0162
74792-12	290.	1.80	9.90	2.00	0.63	1.15	0.3025	0.0897	0.0609	0.0172
74807-08	309.	1.95	11.97	2.05	0.59	0.78	0.3298	0.1150	0.0620	0.0194
74811-13	296.	1.92	10.87	1.95	0.61	0.51	0.2803	0.0876	0.0709	0.0212
74813-12	288.	1.75	9.71	1.69	0.68	0.59	0.1706	0.0367	0.0546	0.0201
74817-13	359.	2.10	11.91	2.31	0.61	0.75	0.3083	0.1271	0.0758	0.0244
74822-08	305.	2.05	11.46	2.30	0.59	0.97	0.2225	0.1394	0.0758	0.0226
74827-11	273.	1.90	7.58	1.81	0.61	1.44	0.4229	0.1067	0.0604	0.0155
74832-07	262.	1.83	10.33	1.85	0.51	0.58	0.1564	0.0831	0.0656	0.0190
74833-11	310.	1.89	12.02	2.19	0.57	0.88	0.3217	0.1458	0.0949	0.0159
74836-12	373.	2.08	12.42	2.07	0.46	0.71	0.2105	0.1351	0.0773	0.0149
74836-11	350.	2.02	11.27	2.03	0.48	0.64	0.2475	0.1269	0.0831	0.0213
74853-11	307.	1.96	11.08	1.84	0.65	0.75	0.3501	0.1392	0.0691	0.0133
74853-12	345.	2.02	10.37	2.12	0.67	0.63	0.3007	0.1440	0.0666	0.0168
74857-14	340.	1.93	10.30	2.11	0.50	0.92	0.1825	0.1250	0.0869	0.0230
74857-09	315.	1.86	12.85	2.29	0.60	0.72	0.3503	0.1310	0.0695	0.0208

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 221 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74860-08	337.	2.02	10.48	2.27	0.54	0.71	0.3466	0.1215	0.0791	0.0191
74862-13	307.	1.90	11.96	2.26	0.75	0.67	0.4220	0.1429	0.0711	0.0167
74866-16	344.	2.01	10.89	2.16	0.70	0.64	0.2388	0.1563	0.0815	0.0206
74870-03	396.	1.98	14.71	2.55	0.70	0.72	0.4914	0.1393	0.0867	0.0210
MEAN	320.	1.95	11.06	2.08	0.61	0.80	0.2847	0.1192	0.0741	0.0183
S.D.	33.7	0.091	1.493	0.210	0.086	0.248	0.08177	0.04263	0.01092	0.00368
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

POFBWv4.12  
09/05/2002  
R:09/25/2002

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74737-03	585.	0.347	3.562	0.632	0.138	0.482	0.241	0.333
74740-02	507.	0.389	3.785	0.700	0.156	0.473	0.187	0.323
74757-08	596.	0.339	3.020	0.688	0.153	0.352	0.190	0.307
74757-05	601.	0.359	3.651	0.654	0.178	0.309	0.241	0.326
74759-02	517.	0.404	3.938	0.654	0.128	0.443	0.269	0.335
74759-05	507.	0.412	3.755	0.635	0.168	0.485	0.134	0.320
74764-02	571.	0.345	3.648	0.671	0.145	0.503	0.214	0.310
74767-07	487.	0.417	3.214	0.651	0.152	0.585	0.214	0.382
74772-02	568.	0.412	4.195	0.701	0.174	0.424	0.264	0.338
74772-08	555.	0.413	3.822	0.730	0.182	0.315	0.159	0.103
74773-02	502.	0.492	2.763	0.703	0.165	0.460	0.315	0.386
74774-03	609.	0.348	3.057	0.640	0.133	0.376	0.174	0.299
74789-04	491.	0.385	3.916	0.676	0.163	0.426	0.242	0.324
74804-04	529.	0.384	3.068	0.599	0.117	0.412	0.248	0.314
74808-01	570.	0.363	3.768	0.681	0.137	0.558	0.167	0.321
74810-07	501.	0.413	3.411	0.790	0.198	0.507	0.287	0.395
74810-02	572.	0.353	3.164	0.664	0.175	0.355	0.107	0.397
74826-05	525.	0.408	3.303	0.792	0.131	0.570	0.227	0.358
74829-05	499.	0.431	3.074	0.663	0.136	0.232	0.166	0.381
74840-02	518.	0.407	4.220	0.751	0.162	0.591	0.282	0.376
74841-02	541.	0.403	3.312	0.654	0.165	0.462	0.275	0.355
74841-06	512.	0.432	3.432	0.670	0.152	0.402	0.260	0.295
74844-04	504.	0.401	3.847	0.716	0.149	0.405	0.210	0.359
74845-01	542.	0.387	3.594	0.637	0.181	0.542	0.271	0.351
74845-03	532.	0.368	3.645	0.573	0.150	0.306	0.122	0.357
74854-06	515.	0.410	3.064	0.672	0.192	0.530	0.258	0.361

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74854-02	604.	0.326	3.639	0.616	0.164	0.242	0.230	0.303
74864-06	556.	0.362	3.574	0.619	0.165	0.360	0.144	0.311
74867-03	639.	0.355	3.121	0.651	0.138	0.333	0.194	0.291
74867-01	644.	0.325	3.385	0.602	0.143	0.304	0.152	0.276
MEAN	547.	0.386	3.498	0.670	0.156	0.425	0.215	0.330
S.D.	44.5	0.0371	0.3657	0.0511	0.0198	0.1005	0.0546	0.0540
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

MALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74742-03	441.	0.417	3.395	0.721	0.163	0.537	0.204	0.379
74746-06	448.	0.404	2.797	0.667	0.170	0.531	0.241	0.315
74753-04	543.	0.381	3.192	0.624	0.149	0.477	0.206	0.343
74753-02	488.	0.414	3.578	0.717	0.184	0.385	0.260	0.350
74761-09	418.	0.426	3.660	0.543	0.184	0.407	0.218	0.325
74762-04	433.	0.487	3.455	0.598	0.166	0.607	0.279	0.386
74790-09	547.	0.384	3.068	0.594	0.150	0.473	0.276	0.327
74782-04	426.	0.448	3.094	0.758	0.167	0.387	0.244	0.315
74785-04	515.	0.392	3.561	0.592	0.151	0.437	0.214	0.313
74790-02	573.	0.379	3.277	0.696	0.136	0.415	0.267	0.319
74796-07	487.	0.374	3.199	0.526	0.133	0.456	0.246	0.308
74797-09	565.	0.356	3.655	0.727	0.133	0.393	0.195	0.319
74798-04	503.	0.425	4.352	0.761	0.165	0.433	0.294	0.300
74802-05	528.	0.388	3.477	0.667	0.157	0.438	0.212	0.375
74802-08	449.	0.454	3.666	0.755	0.192	0.412	0.316	0.452
74809-09	558.	0.401	2.772	0.647	0.140	0.419	0.211	0.310
74816-05	512.	0.371	2.980	0.740	0.150	0.359	0.225	0.328
74819-03	529.	0.427	3.919	0.767	0.168	0.529	0.267	0.412
74823-01	466.	0.451	3.221	0.740	0.172	0.502	0.255	0.382
74824-05	475.	0.411	3.617	0.798	0.149	0.533	0.291	0.135
74835-03	547.	0.360	3.402	0.618	0.152	0.344	0.161	0.296
74838-06	462.	0.472	3.361	0.686	0.177	0.569	0.266	0.335
74839-02	528.	0.402	3.136	0.765	0.155	0.384	0.223	0.314
74846-03	581.	0.391	3.100	0.675	0.141	0.494	0.160	0.308
74856-06	438.	0.452	3.575	0.726	0.183	0.589	0.233	0.372
74859-06	439.	0.444	3.847	0.656	0.159	0.569	0.251	0.344

PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74861-02	470.	0.453	2.915	0.677	0.143	0.400	0.083	0.304
74863-05	558.	0.391	3.801	0.695	0.142	0.412	0.226	0.335
74863-02	557.	0.382	4.063	0.666	0.135	0.427	0.298	0.334
74869-02	532.	0.406	3.714	0.718	0.148	0.380	0.211	0.374
MEAN	501.	0.411	3.428	0.684	0.157	0.457	0.234	0.334
S.D.	50.4	0.0340	0.3743	0.0686	0.0166	0.0731	0.0476	0.0523
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74738-02	499.	0.429	3.828	0.645	0.158	0.379	0.142	0.323
74739-04	493.	0.416	3.438	0.700	0.150	0.503	0.213	0.353
74743-04	482.	0.423	3.442	0.664	0.172	0.297	0.197	0.344
74744-02	408.	0.529	4.385	0.716	0.176	0.478	0.216	0.311
74748-05	459.	0.434	3.368	0.595	0.170	0.303	0.222	0.331
74748-02	395.	0.478	3.200	0.565	0.175	0.605	0.225	0.403
74752-05	528.	0.373	3.381	0.625	0.155	0.371	0.254	0.324
74766-02	501.	0.423	3.074	0.615	0.178	0.387	0.269	0.357
74780-03	585.	0.366	3.371	0.699	0.159	0.347	0.118	0.308
74791-05	450.	0.436	3.627	0.678	0.144	0.636	0.280	0.344
74791-02	498.	0.386	3.568	0.677	0.143	0.452	0.265	0.317
74793-05	483.	0.437	3.159	0.795	0.172	0.458	0.155	0.377
74795-06	533.	0.403	3.508	0.615	0.137	0.553	0.205	0.345
74799-03	548.	0.376	3.237	0.737	0.142	0.456	0.246	0.330
74801-10	503.	0.431	3.495	0.775	0.201	0.463	0.282	0.388
74806-06	534.	0.416	3.717	0.588	0.178	0.384	0.258	0.303
74806-03	548.	0.356	2.903	0.600	0.150	0.412	0.239	0.319
74820-02	533.	0.386	3.109	0.638	0.128	0.413	0.171	0.355
74821-02	492.	0.433	3.675	0.774	0.154	0.522	0.252	0.368
74830-02	523.	0.375	3.193	0.688	0.157	0.426	0.229	0.356
74831-02	522.	0.408	3.358	0.715	0.195	0.531	0.155	0.343
74834-04	612.	0.405	3.817	0.693	0.144	0.286	0.248	0.291
74847-03	560.	0.346	3.420	0.632	0.136	0.421	0.229	0.309
74848-03	603.	0.332	3.922	0.630	0.143	0.358	0.192	0.307
74849-03	563.	0.378	4.142	0.661	0.151	0.403	0.165	0.295
74850-05	463.	0.421	3.464	0.661	0.160	0.488	0.259	0.317

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74855-08	547.	0.375	3.411	0.649	0.176	0.430	0.282	0.325
74858-04	534.	0.393	3.373	0.695	0.152	0.479	0.189	0.313
74868-02	405.	0.459	2.877	0.612	0.175	0.541	0.240	0.360
74871-06	486.	0.438	3.461	0.774	0.152	0.572	0.323	0.340
MEAN	510.	0.409	3.464	0.670	0.159	0.445	0.224	0.335
S.D.	53.6	0.0408	0.3321	0.0603	0.0175	0.0885	0.0478	0.0276
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74747-04	520.	0.363	3.467	0.663	0.129	0.437	0.179	0.304
74747-03	569.	0.380	3.306	0.624	0.144	0.490	0.120	0.243
74751-05	547.	0.395	3.230	0.596	0.141	0.410	0.239	0.333
74751-02	517.	0.404	3.480	0.650	0.149	0.422	0.232	0.375
74754-09	458.	0.454	2.906	0.712	0.151	0.561	0.225	0.408
74755-05	564.	0.369	3.422	0.729	0.138	0.573	0.287	0.332
74768-02	578.	0.394	3.261	0.614	0.125	0.403	0.202	0.308
74769-07	460.	0.439	3.241	0.767	0.157	0.496	0.222	0.393
74770-06	623.	0.335	3.586	0.665	0.128	0.342	0.162	0.270
74786-05	644.	0.314	3.537	0.638	0.157	0.306	0.233	0.286
74786-07	480.	0.388	3.015	0.727	0.158	0.483	0.367	0.377
74787-06	439.	0.487	3.656	0.804	0.187	0.453	0.169	0.369
74792-03	551.	0.361	3.501	0.657	0.154	0.272	0.156	0.314
74807-05	417.	0.460	3.619	0.659	0.165	0.525	0.360	0.384
74811-01	582.	0.357	3.840	0.665	0.139	0.390	0.229	0.294
74813-08	500.	0.406	3.464	0.684	0.138	0.378	0.254	0.346
74817-04	533.	0.388	3.159	0.644	0.146	0.370	0.214	0.313
74822-15	417.	0.499	4.103	0.923	0.182	0.659	0.312	0.436
74822-14	520.	0.406	4.190	0.852	0.198	0.560	0.198	0.325
74827-03	387.	0.473	3.065	0.716	0.132	0.695	0.315	0.424
74832-03	559.	0.374	3.803	0.674	0.197	0.383	0.254	0.299
74833-02	522.	0.410	3.358	0.672	0.161	0.450	0.226	0.324
74836-08	607.	0.349	3.100	0.652	0.119	0.326	0.204	0.295
74853-06	512.	0.420	3.146	0.691	0.186	0.471	0.279	0.346
74857-10	620.	0.326	3.432	0.652	0.176	0.415	0.215	0.318
74860-03	576.	0.356	3.175	0.601	0.141	0.380	0.189	0.318

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KID NEYS	SPLEEN	SEM VES/ CG/FLUID	PROS TATE	RIGHT TESTIS
74860-02	571.	0.356	3.660	0.660	0.147	0.345	0.198	0.327
74862-08	487.	0.400	3.150	0.684	0.201	0.585	0.251	0.380
74866-01	620.	0.332	2.994	0.552	0.139	0.326	0.165	0.285
74870-06	625.	0.320	3.960	0.674	0.168	0.349	0.158	0.296
MEAN	534.	0.391	3.428	0.683	0.155	0.442	0.227	0.334
S.D.	68.4	0.0492	0.3272	0.0750	0.0228	0.1045	0.0588	0.0467
N	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74737-03	0.333	0.120	0.121	0.055	0.051	0.034	0.009	0.003
74740-02	0.343	0.142	0.138	0.057	0.065	0.054	0.007	0.003
74757-08	0.307	0.131	0.114	0.050	0.053	0.037	0.012	0.003
74757-05	0.319	0.130	0.130	0.055	0.052	0.037	0.014	0.003
74759-02	0.335	0.132	0.137	0.060	0.060	0.039	0.011	0.003
74759-05	0.310	0.158	0.152	0.064	0.067	0.071	0.012	0.003
74764-02	0.310	0.121	0.128	0.062	0.061	0.037	0.013	0.003
74767-07	0.392	0.160	0.162	0.068	0.066	0.025	0.012	0.003
74772-02	0.363	0.139	0.144	0.058	0.066	0.035	0.010	0.003
74772-08	0.124	0.067	0.065	0.025	0.025	0.047	0.010	0.003
74773-02	0.388	0.153	0.143	0.054	0.058	0.034	0.014	0.003
74774-03	0.310	0.105	0.118	0.048	0.056	0.050	0.008	0.003
74789-04	0.332	0.128	0.128	0.063	0.067	0.063	0.011	0.003
74804-04	0.308	0.136	0.130	0.060	0.060	0.067	0.008	0.003
74808-01	0.319	0.128	0.144	0.057	0.062	0.036	0.009	0.002
74810-07	0.391	0.152	0.150	0.067	0.067	0.031	0.013	0.002
74810-02	0.318	0.124	0.108	0.042	0.043	0.037	0.009	0.003
74826-05	0.368	0.133	0.141	0.067	0.062	0.034	0.015	0.003
74829-05	0.379	0.160	0.142	0.067	0.057	0.031	0.012	0.003
74840-02	0.390	0.149	0.154	0.075	0.082	0.051	0.013	0.003
74841-02	0.357	0.152	0.139	0.064	0.063	0.042	0.008	0.003
74841-06	0.320	0.146	0.146	0.071	0.071	0.056	0.010	0.003
74844-04	0.369	0.137	0.135	0.062	0.062	0.027	0.011	0.003
74845-01	0.343	0.138	0.149	0.054	0.057	0.029	0.011	0.004
74845-03	0.357	0.156	0.152	0.070	0.056	0.041	0.010	0.003
74854-06	0.363	0.150	0.142	0.063	0.060	0.033	0.012	0.003

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 10

MALE GROUP: 0 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74854-02	0.286	0.119	0.137	0.057	0.059	0.041	0.008	0.003
74864-06	0.317	0.129	0.140	0.056	0.067	0.052	0.013	0.003
74867-03	0.299	0.117	0.127	0.056	0.055	0.040	0.011	0.003
74867-01	0.275	0.126	0.113	0.054	0.049	0.031	0.006	0.002
MEAN	0.331	0.135	0.134	0.059	0.059	0.041	0.011	0.003
S.D.	0.0509	0.0192	0.0184	0.0096	0.0099	0.0118	0.0022	0.0004
N	30	30	30	30	30	30	30	30

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74742-03	0.356	0.143	0.159	0.074	0.076	0.065	0.012	0.003
74746-06	0.326	0.147	0.147	0.061	0.069	0.050	0.010	0.003
74753-04	0.333	0.131	0.144	0.062	0.070	0.059	0.014	0.002
74753-02	0.363	0.150	0.164	0.079	0.075	0.064	0.014	0.002
74761-09	0.335	0.146	0.144	0.061	0.061	0.058	0.012	0.003
74762-04	0.372	0.141	0.148	0.063	0.060	0.068	0.011	0.003
74790-09	0.342	0.143	0.132	0.057	0.062	0.074	0.011	0.003
74782-04	0.312	0.138	0.120	0.052	0.052	0.079	0.015	0.003
74785-04	0.328	0.136	0.130	0.055	0.057	0.039	0.009	0.003
74790-02	0.325	0.120	0.129	0.050	0.056	0.051	0.010	0.002
74796-07	0.300	0.121	0.131	0.059	0.053	0.049	0.011	0.004
74797-09	0.322	0.129	0.120	0.060	0.056	0.043	0.010	0.003
74798-04	0.306	0.123	0.127	0.056	0.048	0.052	0.013	0.003
74802-05	0.375	0.140	0.150	0.060	0.072	0.075	0.012	0.003
74802-08	0.441	0.171	0.165	0.075	0.066	0.057	0.013	0.004
74809-09	0.319	0.133	0.125	0.050	0.054	0.047	0.011	0.004
74816-05	0.316	0.127	0.121	0.059	0.055	0.040	0.010	0.003
74819-03	0.401	0.170	0.153	0.079	0.060	0.031	0.011	0.002
74823-01	0.388	0.170	0.163	0.064	0.083	0.045	0.013	0.003
74824-05	0.192	0.093	0.105	0.042	0.037	0.069	0.012	0.003
74835-03	0.307	0.126	0.137	0.055	0.069	0.045	0.008	0.003
74838-06	0.348	0.147	0.147	0.070	0.063	0.042	0.014	0.004
74839-02	0.313	0.144	0.133	0.068	0.063	0.039	0.012	0.003
74846-03	0.310	0.122	0.129	0.056	0.066	0.046	0.011	0.003
74856-06	0.377	0.158	0.162	0.071	0.080	0.056	0.013	0.003
74859-06	0.355	0.137	0.139	0.063	0.074	0.043	0.014	0.003

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74861-02	0.313	0.138	0.132	0.058	0.063	0.078	0.011	0.003
74863-05	0.355	0.152	0.168	0.074	0.077	0.036	0.014	0.003
74863-02	0.336	0.153	0.147	0.070	0.071	0.022	0.012	0.003
74869-02	0.376	0.141	0.150	0.067	0.075	0.080	0.012	0.002
MEAN	0.338	0.140	0.141	0.062	0.064	0.053	0.012	0.003
S.D.	0.0428	0.0165	0.0159	0.0090	0.0104	0.0151	0.0017	0.0006
N	30	30	30	30	30	30	30	30

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TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74738-02	0.311	0.132	0.132	0.058	0.065	0.043	0.010	0.003
74739-04	0.371	0.134	0.164	0.068	0.074	0.055	0.013	0.004
74743-04	0.357	0.151	0.122	0.059	0.053	0.032	0.010	0.003
74744-02	0.314	0.125	0.140	0.052	0.066	0.048	0.014	0.003
74748-05	0.346	0.146	0.142	0.061	0.066	0.055	0.012	0.003
74748-02	0.403	0.175	0.172	0.081	0.080	0.039	0.013	0.003
74752-05	0.313	0.129	0.127	0.059	0.058	0.040	0.010	0.003
74766-02	0.369	0.140	0.150	0.059	0.066	0.084	0.011	0.003
74780-03	0.303	0.121	0.109	0.037	0.043	0.042	0.011	0.003
74791-05	0.347	0.162	0.144	0.065	0.067	0.033	0.011	0.003
74791-02	0.301	0.141	0.137	0.067	0.060	0.059	0.010	0.003
74793-05	0.371	0.149	0.149	0.066	0.065	0.047	0.013	0.003
74795-06	0.340	0.131	0.135	0.067	0.073	0.050	0.011	0.004
74799-03	0.330	0.133	0.113	0.062	0.053	0.045	0.011	0.003
74801-10	0.368	0.157	0.155	0.074	0.070	0.040	0.015	0.003
74806-06	0.298	0.124	0.139	0.057	0.066	0.051	0.012	0.003
74806-03	0.312	0.130	0.131	0.045	0.067	0.040	0.010	0.002
74820-02	0.349	0.158	0.126	0.067	0.063	0.049	0.009	0.002
74821-02	0.374	0.136	0.142	0.064	0.072	0.049	0.015	0.004
74830-02	0.361	0.143	0.147	0.064	0.067	0.056	0.011	0.003
74831-02	0.347	0.142	0.144	0.068	0.076	0.038	0.010	0.003
74834-04	0.286	0.114	0.119	0.050	0.051	0.045	0.013	0.003
74847-03	0.314	0.121	0.113	0.043	0.047	0.042	0.008	0.003
74848-03	0.307	0.119	0.109	0.059	0.051	0.035	0.009	0.003
74849-03	0.300	0.133	0.123	0.059	0.055	0.033	0.009	0.002
74850-05	0.305	0.145	0.132	0.065	0.063	0.038	0.008	0.002

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PROJECT NO.:WIL-186013A  
SPONSOR:ACC

TABLE 222 (F1 MALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 1000 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74855-08	0.325	0.141	0.128	0.060	0.061	0.038	0.012	0.003
74858-04	0.303	0.116	0.122	0.043	0.051	0.029	0.011	0.003
74868-02	0.348	0.128	0.153	0.065	0.074	0.068	0.014	0.003
74871-06	0.329	0.146	0.144	0.056	0.060	0.037	0.013	0.004
MEAN	0.333	0.137	0.135	0.060	0.063	0.045	0.011	0.003
S.D.	0.0296	0.0144	0.0157	0.0095	0.0091	0.0115	0.0019	0.0005
N	30	30	30	30	30	30	30	30

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TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74747-04	0.306	0.117	0.117	0.055	0.057	0.037	0.008	0.002
74747-03	0.248	0.125	0.125	0.043	0.051	0.044	0.012	0.003
74751-05	0.333	0.148	0.152	0.061	0.067	0.032	0.014	0.004
74751-02	0.381	0.159	0.155	0.083	0.078	0.044	0.013	0.003
74754-09	0.400	0.151	0.146	0.077	0.060	0.042	0.014	0.003
74755-05	0.339	0.144	0.131	0.060	0.066	0.038	0.013	0.003
74768-02	0.306	0.131	0.114	0.055	0.046	0.027	0.008	0.003
74769-07	0.387	0.159	0.170	0.073	0.079	0.040	0.011	0.003
74770-06	0.283	0.119	0.124	0.056	0.057	0.042	0.008	0.003
74786-05	0.292	0.106	0.115	0.046	0.043	0.057	0.009	0.003
74786-07	0.363	0.165	0.158	0.062	0.073	0.051	0.010	0.003
74787-06	0.362	0.144	0.146	0.068	0.070	0.031	0.012	0.003
74792-03	0.314	0.120	0.129	0.053	0.052	0.033	0.012	0.003
74807-05	0.357	0.141	0.144	0.050	0.062	0.058	0.013	0.003
74811-01	0.296	0.112	0.112	0.048	0.051	0.032	0.009	0.003
74813-08	0.348	0.130	0.142	0.061	0.075	0.033	0.012	0.003
74817-04	0.315	0.141	0.118	0.056	0.052	0.062	0.010	0.003
74822-15	0.273	0.108	0.082	0.052	0.039	0.021	0.015	0.004
74822-14	0.331	0.137	0.138	0.062	0.062	0.024	0.010	0.003
74827-03	0.421	0.152	0.145	0.074	0.078	0.079	0.012	0.003
74832-03	0.299	0.123	0.129	0.061	0.056	0.040	0.007	0.004
74833-02	0.337	0.136	0.126	0.058	0.061	0.040	0.009	0.003
74836-08	0.308	0.115	0.133	0.049	0.056	0.046	0.012	0.003
74853-06	0.324	0.139	0.146	0.063	0.068	0.033	0.011	0.004
74857-10	0.313	0.129	0.127	0.062	0.059	0.040	0.010	0.003
74860-03	0.313	0.134	0.132	0.048	0.062	0.038	0.008	0.003

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PROJECT NO.:WIL-186013A  
 SPONSOR:ACC

TABLE 222 (F1 MALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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MALE GROUP: 2500 PPM

ANIMAL	LEFT TESTIS	RIGHT EP IDIDYMIS	LEFT EPI DIDYMIS	RIGHT CA UDA EPID	LEFT CAU DA EPID	THYMUS	ADRENAL GLANDS	PITU ITARY
74860-02	0.340	0.142	0.130	0.050	0.058	0.053	0.010	0.003
74862-08	0.372	0.158	0.168	0.064	0.079	0.050	0.009	0.003
74866-01	0.282	0.102	0.118	0.045	0.038	0.048	0.012	0.002
74870-06	0.307	0.122	0.134	0.058	0.064	0.057	0.013	0.003
MEAN	0.328	0.134	0.134	0.058	0.061	0.042	0.011	0.003
S.D.	0.0396	0.0170	0.0182	0.0097	0.0114	0.0124	0.0021	0.0004
N	30	30	30	30	30	30	30	30

POFBWv4.12  
 09/05/2002  
 R:09/25/2002

TABLE 223 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74737-14	358.	0.525	2.818	0.494	0.190	0.131	0.074	0.021	0.013	0.006
74737-10	317.	0.621	3.350	0.681	0.174	0.211	0.076	0.032	0.022	0.006
74740-07	344.	0.587	3.773	0.634	0.186	0.387	0.065	0.024	0.020	0.007
74757-11	324.	0.611	3.636	0.660	0.194	0.176	0.069	0.036	0.022	0.008
74759-09	281.	0.701	3.253	0.733	0.181	0.246	0.089	0.046	0.025	0.006
74764-10	338.	0.568	3.420	0.592	0.148	0.192	0.111	0.035	0.017	0.006
74767-16	304.	0.612	3.579	0.658	0.214	0.250	0.049	0.042	0.019	0.006
74767-10	335.	0.594	3.621	0.669	0.182	0.245	0.049	0.047	0.024	0.007
74772-09	323.	0.659	2.972	0.663	0.207	0.192	0.068	0.040	0.025	0.007
74773-15	295.	0.624	3.478	0.698	0.247	0.210	0.076	0.039	0.026	0.005
74773-08	331.	0.616	3.656	0.610	0.205	0.199	0.087	0.037	0.021	0.006
74774-15	379.	0.544	3.319	0.578	0.172	0.224	0.050	0.031	0.022	0.005
74789-10	313.	0.626	3.649	0.585	0.173	0.224	0.121	0.040	0.021	0.006
74789-09	314.	0.608	4.640	0.685	0.210	0.204	0.120	0.034	0.025	0.006
74804-11	306.	0.605	3.624	0.693	0.183	0.190	0.130	0.049	0.028	0.006
74804-08	307.	0.632	3.498	0.648	0.156	0.182	0.111	0.043	0.022	0.006
74808-13	328.	0.622	3.393	0.652	0.201	0.220	0.103	0.042	0.026	0.005
74808-11	305.	0.584	3.580	0.787	0.203	0.302	0.133	0.051	0.024	0.006
74810-16	316.	0.633	3.905	0.680	0.209	0.231	0.074	0.037	0.026	0.007
74826-11	333.	0.580	3.393	0.622	0.156	0.213	0.062	0.014	0.021	0.006
74826-08	321.	0.592	3.629	0.636	0.178	0.246	0.075	0.039	0.028	0.006
74829-11	324.	0.627	3.836	0.719	0.231	0.219	0.085	0.029	0.023	0.007
74840-03	353.	0.603	3.501	0.660	0.193	0.139	0.116	0.035	0.019	0.006
74841-12	275.	0.702	3.353	0.662	0.204	0.175	0.111	0.036	0.028	0.008
74844-05	335.	0.522	3.746	0.603	0.152	0.221	0.051	0.015	0.026	0.009
74844-07	303.	0.604	3.564	0.617	0.155	0.426	0.091	0.031	0.022	0.005

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 223 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2

FEMALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74845-07	306.	0.595	3.275	0.663	0.203	0.281	0.089	0.036	0.020	0.007
74854-08	329.	0.568	3.152	0.660	0.210	0.152	0.061	0.037	0.020	0.005
74864-15	275.	0.669	3.476	0.640	0.207	0.255	0.121	0.031	0.026	0.006
74867-07	372.	0.535	3.411	0.591	0.161	0.188	0.088	0.027	0.018	0.005
MEAN	321.	0.606	3.517	0.649	0.190	0.224	0.087	0.035	0.023	0.006
S.D.	25.0	0.0438	0.3175	0.0544	0.0242	0.0625	0.0256	0.0089	0.0036	0.0010
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 223 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74742-18	236.	0.725	4.097	0.682	0.195	0.280	0.140	0.040	0.022	0.007
74746-10	341.	0.540	3.651	0.683	0.179	0.202	0.067	0.044	0.018	0.005
74753-12	337.	0.585	3.261	0.579	0.187	0.359	0.122	0.033	0.024	0.005
74761-12	271.	0.657	4.063	0.624	0.199	0.292	0.102	0.030	0.026	0.007
74762-11	293.	0.638	3.478	0.655	0.177	0.311	0.128	0.030	0.022	0.005
74782-09	257.	0.638	3.276	0.681	0.198	0.218	0.165	0.048	0.024	0.004
74785-08	292.	0.616	3.606	0.671	0.137	0.295	0.118	0.036	0.030	0.006
74790-15	290.	0.714	3.779	0.645	0.228	0.455	0.100	0.055	0.028	0.006
74790-14	311.	0.627	3.212	0.727	0.254	0.267	0.105	0.055	0.027	0.005
74796-15	392.	0.515	3.645	0.620	0.219	0.163	0.105	0.033	0.018	0.006
74797-12	272.	0.658	3.276	0.643	0.184	0.180	0.077	0.027	0.023	0.007
74798-13	298.	0.617	3.832	0.628	0.252	0.215	0.095	0.031	0.019	0.006
74798-12	332.	0.599	3.301	0.623	0.220	0.223	0.083	0.040	0.016	0.005
74802-10	290.	0.617	4.434	0.721	0.179	0.252	0.136	0.037	0.022	0.004
74809-08	292.	0.692	3.154	0.695	0.144	0.264	0.061	0.032	0.019	0.007
74816-12	305.	0.620	3.616	0.754	0.207	0.289	0.089	0.030	0.026	0.007
74819-10	303.	0.667	3.667	0.746	0.182	0.281	0.104	0.044	0.023	0.005
74823-12	310.	0.616	4.177	0.690	0.184	0.177	0.118	0.041	0.023	0.005
74824-11	314.	0.602	3.611	0.618	0.182	0.210	0.098	0.029	0.025	0.005
74835-11	222.	0.793	3.464	0.730	0.176	0.252	0.081	0.045	0.024	0.006
74835-07	313.	0.591	3.310	0.671	0.179	0.259	0.099	0.035	0.022	0.005
74838-11	301.	0.661	3.312	0.578	0.203	0.219	0.098	0.040	0.024	0.006
74839-18	308.	0.649	3.971	0.740	0.195	0.250	0.033	0.034	0.032	0.007
74846-07	298.	0.631	3.685	0.708	0.201	0.181	0.072	0.035	0.024	0.006
74856-15	295.	0.617	3.756	0.607	0.197	0.383	0.115	0.042	0.027	0.006
74859-09	316.	0.658	3.073	0.636	0.174	0.155	0.087	0.041	0.026	0.004

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 223 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74859-12	352.	0.534	3.886	0.631	0.179	0.278	0.090	0.028	0.018	0.005
74861-05	275.	0.629	2.927	0.687	0.167	0.193	0.064	0.029	0.025	0.007
74863-10	351.	0.581	3.439	0.578	0.165	0.222	0.070	0.030	0.028	0.005
74869-04	337.	0.576	4.000	0.671	0.187	0.134	0.124	0.032	0.024	0.005
MEAN	303.	0.629	3.599	0.664	0.191	0.249	0.098	0.037	0.024	0.006
S.D.	34.5	0.0568	0.3580	0.0505	0.0258	0.0697	0.0272	0.0076	0.0037	0.0010
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 223 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74738-07	320.	0.559	4.697	0.678	0.200	0.169	0.078	0.032	0.021	0.006
74738-12	307.	0.573	3.899	0.609	0.173	0.365	0.087	0.037	0.020	0.005
74739-08	328.	0.588	3.491	0.619	0.168	0.192	0.073	0.029	0.022	0.008
74743-08	323.	0.659	4.050	0.650	0.201	0.279	0.080	0.039	0.019	0.006
74744-16	294.	0.646	3.605	0.653	0.231	0.194	0.092	0.035	0.021	0.006
74748-11	296.	0.639	3.750	0.639	0.213	0.196	0.081	0.042	0.021	0.006
74752-10	347.	0.545	3.778	0.611	0.141	0.159	0.084	0.034	0.018	0.005
74766-13	266.	0.692	3.466	0.594	0.169	0.259	0.136	0.027	0.023	0.005
74780-04	335.	0.597	3.472	0.699	0.203	0.158	0.078	0.038	0.029	0.005
74791-13	270.	0.685	3.956	0.715	0.170	0.148	0.087	0.036	0.023	0.004
74793-14	304.	0.625	3.651	0.714	0.207	0.234	0.140	0.033	0.022	0.005
74795-09	342.	0.532	3.158	0.617	0.146	0.146	0.077	0.024	0.017	0.006
74799-14	272.	0.688	3.243	0.643	0.217	0.316	0.110	0.042	0.028	0.008
74801-14	364.	0.533	3.624	0.712	0.179	0.212	0.096	0.019	0.021	0.007
74806-11	299.	0.599	2.983	0.652	0.201	0.582	0.111	0.036	0.025	0.005
74820-12	287.	0.666	3.376	0.714	0.185	0.185	0.093	0.033	0.029	0.007
74821-09	331.	0.592	3.218	0.625	0.178	0.233	0.075	0.033	0.020	0.006
74821-07	287.	0.683	3.505	0.735	0.153	0.258	0.099	0.043	0.025	0.005
74830-11	309.	0.573	3.327	0.618	0.188	0.204	0.092	0.028	0.021	0.004
74831-12	315.	0.616	3.759	0.708	0.222	0.197	0.083	0.048	0.021	0.006
74834-07	291.	0.715	3.866	0.746	0.175	0.144	0.095	0.036	0.018	0.007
74847-09	349.	0.536	3.226	0.648	0.189	0.258	0.088	0.035	0.020	0.005
74848-04	339.	0.569	3.324	0.676	0.204	0.195	0.092	0.039	0.019	0.005
74849-07	295.	0.644	3.397	0.637	0.156	0.278	0.075	0.035	0.022	0.005
74850-11	274.	0.679	3.646	0.653	0.201	0.197	0.055	0.040	0.022	0.004
74850-14	295.	0.631	4.336	0.756	0.220	0.261	0.070	0.036	0.020	0.004

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 223 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 6

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74855-11	312.	0.564	3.468	0.615	0.218	0.231	0.102	0.041	0.024	0.006
74858-14	338.	0.574	3.633	0.618	0.198	0.154	0.077	0.036	0.018	0.004
74868-20	300.	0.600	3.677	0.623	0.193	0.227	0.208	0.041	0.019	0.005
74871-09	311.	0.650	4.682	0.685	0.151	0.174	0.083	0.043	0.020	0.005
MEAN	310.	0.615	3.642	0.662	0.188	0.227	0.093	0.036	0.022	0.006
S.D.	25.6	0.0536	0.4046	0.0460	0.0244	0.0854	0.0280	0.0061	0.0031	0.0011
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

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TABLE 223 (F1 FEMALES)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74747-17	341.	0.625	3.522	0.651	0.173	0.264	0.067	0.021	0.030	0.007
74751-13	305.	0.633	3.318	0.636	0.180	0.203	0.083	0.039	0.028	0.006
74754-15	319.	0.564	3.191	0.533	0.238	0.185	0.096	0.032	0.020	0.004
74755-01	246.	0.760	3.366	0.707	0.211	0.321	0.059	0.030	0.033	0.006
74768-11	345.	0.568	3.125	0.652	0.148	0.348	0.061	0.040	0.022	0.003
74769-08	314.	0.608	3.646	0.599	0.242	0.201	0.111	0.044	0.024	0.005
74770-11	349.	0.582	4.095	0.670	0.195	0.372	0.084	0.029	0.023	0.005
74770-10	365.	0.540	3.268	0.605	0.167	0.356	0.062	0.078	0.017	0.004
74786-10	300.	0.640	3.353	0.703	0.203	0.247	0.117	0.036	0.024	0.009
74787-10	287.	0.700	3.279	0.718	0.213	0.174	0.081	0.032	0.025	0.004
74792-11	321.	0.586	3.533	0.629	0.240	0.202	0.089	0.017	0.019	0.005
74792-12	290.	0.621	3.414	0.690	0.217	0.397	0.104	0.031	0.021	0.006
74807-08	309.	0.631	3.874	0.663	0.191	0.252	0.107	0.037	0.020	0.006
74811-13	296.	0.649	3.672	0.659	0.206	0.172	0.095	0.030	0.024	0.007
74813-12	288.	0.608	3.372	0.587	0.236	0.205	0.059	0.013	0.019	0.007
74817-13	359.	0.585	3.318	0.643	0.170	0.209	0.086	0.035	0.021	0.007
74822-08	305.	0.672	3.757	0.754	0.193	0.318	0.073	0.046	0.025	0.007
74827-11	273.	0.696	2.777	0.663	0.223	0.527	0.155	0.039	0.022	0.006
74832-07	262.	0.698	3.943	0.706	0.195	0.221	0.060	0.032	0.025	0.007
74833-11	310.	0.610	3.877	0.706	0.184	0.284	0.104	0.047	0.031	0.005
74836-12	373.	0.558	3.330	0.555	0.123	0.190	0.056	0.036	0.021	0.004
74836-11	350.	0.577	3.220	0.580	0.137	0.183	0.071	0.036	0.024	0.006
74853-11	307.	0.638	3.609	0.599	0.212	0.244	0.114	0.045	0.023	0.004
74853-12	345.	0.586	3.006	0.614	0.194	0.183	0.087	0.042	0.019	0.005
74857-14	340.	0.568	3.029	0.621	0.147	0.271	0.054	0.037	0.026	0.007
74857-09	315.	0.590	4.079	0.727	0.190	0.229	0.111	0.042	0.022	0.007

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 223 (F1 FEMALES)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	LIVER	KIDNEYS	SPLEEN	UTERUS /CX/OD	THYMUS	OVARIES	ADRENAL GLANDS	PITU ITARY
74860-08	337.	0.599	3.110	0.674	0.160	0.211	0.103	0.036	0.023	0.006
74862-13	307.	0.619	3.896	0.736	0.244	0.218	0.137	0.047	0.023	0.005
74866-16	344.	0.584	3.166	0.628	0.203	0.186	0.069	0.045	0.024	0.006
74870-03	396.	0.500	3.715	0.644	0.177	0.182	0.124	0.035	0.022	0.005
MEAN	320.	0.613	3.462	0.652	0.194	0.252	0.089	0.037	0.023	0.006
S.D.	33.7	0.0538	0.3366	0.0545	0.0318	0.0825	0.0259	0.0113	0.0036	0.0013
N	30	30	30	30	30	30	30	30	30	30

FBW = FINAL BODY WEIGHT

POFBWv4.12  
09/05/2002  
R:09/25/2002

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 LITTERS FROM GROUP 1: 0 PPM  
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NUMBER OF VIABLE PUPS

DAM #	NO. DEAD DAY 0			NO. VIABLE DAY 0				TOTAL	NUMBER OF VIABLE PUPS													
	M	F	U	M	%	F	%		DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21			
									M	F	M	F	M	F	M	F	M	F	M	F		
74737-10	0	0	0	5/	5	100	10/10	100	15	5	10	5	10	4	4	4	4	4	4	4	4	4
74759-09	0	0	0	9/	9	100	4/	4	100	13	9	4	9	4	4	4	4	4	4	4	4	4
74764-10	0	0	0	8/	8	100	7/	7	100	15	8	7	8	7	4	4	4	4	4	4	4	4
74767-16	0	0	0	6/	6	100	10/10	100	16	6	10	6	10	4	4	4	4	4	4	4	4	4
74767-10	0	0	0	4/	4	100	8/	8	100	12	4	8	4	8	4	4	4	4	4	4	4	4
74772-09	0	0	0	7/	7	100	7/	7	100	14	6	7	6	7	4	4	4	4	4	4	4	3
74773-15	0	0	0	4/	4	100	2/	2	100	6	4	2	4	2	4	2	4	2	4	2	4	2
74773-08	1	0	0	9/10	90	5/	5	100	14	9	5	9	5	4	4	4	4	4	4	4	4	4
74789-10	0	0	0	4/	4	100	10/10	100	14	4	10	4	10	4	4	4	4	4	4	4	4	4
74789-09	0	0	0	9/	9	100	6/	6	100	15	9	6	8	6	3	4	3	4	3	4	3	4
74804-11	1	0	0	3/	4	75	4/	4	100	7	3	4	3	4	3	4	3	4	3	4	3	4
74804-08	0	0	0	7/	7	100	8/	8	100	15	7	8	7	8	4	4	4	4	4	4	4	4
74808-13	0	0	0	8/	8	100	7/	7	100	15	7	7	7	7	4	4	4	4	4	4	4	4
74808-11	0	0	0	6/	6	100	10/10	100	16	6	10	6	10	4	4	4	4	4	4	4	4	4
74810-16	0	0	0	6/	6	100	6/	6	100	12	6	6	6	6	4	4	4	4	4	4	4	4
74826-08	0	0	0	8/	8	100	7/	7	100	15	8	7	8	7	4	4	4	4	4	4	4	4
74829-11	0	0	0	6/	6	100	11/11	100	17	6	11	6	11	4	4	4	4	4	4	4	4	4
74840-03	0	0	0	3/	3	100	3/	3	100	6	3	3	3	3	3	3	3	3	3	3	3	3
74841-12	0	0	0	4/	4	100	10/10	100	14	4	10	4	10	4	4	4	4	4	4	4	4	4
74844-07	0	0	0	5/	5	100	8/	8	100	13	5	8	5	8	4	4	4	4	4	4	4	4
74845-07	1	0	0	7/	8	88	6/	6	100	13	7	6	7	6	4	4	4	4	4	4	4	4
74867-07	0	0	0	3/	3	100	6/	6	100	9	3	6	3	6	3	5	3	5	3	5	3	5
TOTAL	3	0	0	131/134		155/155		286		129	155	128	155	84	86	84	86	84	86	84	85	85

M = MALE, F = FEMALE, U = UNDETERMINED

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 LITTERS FROM GROUP 2: 500 PPM  
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NUMBER OF VIABLE PUPS

DAM #	NO. DEAD DAY 0			NO. VIABLE DAY 0				TOTAL	NUMBER OF VIABLE PUPS													
	M	F	U	M	%	F	%		DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21			
									M	F	M	F	M	F	M	F	M	F	M	F		
74742-18	0	0	0	6/ 6	100	6/ 6	100	12	6	6	6	6	4	4	4	4	4	4	4	4	4	4
74746-10	0	0	0	10/10	100	7/ 7	100	17	10	7	10	7	4	4	4	3	3	3	3	3	3	3
74753-12	0	0	0	13/13	100	4/ 4	100	17	13	4	12	3	5	3	5	3	5	3	5	3	5	3
74761-12	0	0	0	4/ 4	100	7/ 7	100	11	4	7	4	6	4	4	4	4	4	4	4	4	4	4
74762-11	0	0	0	6/ 6	100	8/ 8	100	14	6	7	6	7	4	4	4	4	4	4	4	4	4	4
74782-09	0	0	0	6/ 6	100	4/ 4	100	10	6	4	6	4	4	4	4	4	4	4	4	4	4	4
74785-08	0	0	0	9/ 9	100	4/ 4	100	13	9	4	9	4	4	4	4	4	4	4	4	4	4	4
74790-15	0	0	0	11/11	100	5/ 5	100	16	11	5	11	5	4	4	4	4	4	4	4	4	4	4
74790-14	0	0	0	8/ 8	100	4/ 4	100	12	8	4	8	4	4	4	4	4	4	4	4	4	4	4
74796-15	0	0	0	8/ 8	100	9/ 9	100	17	8	9	8	8	4	4	4	4	4	4	4	4	4	4
74798-13	0	0	0	8/ 8	100	7/ 7	100	15	8	7	8	7	4	4	4	4	4	4	4	4	4	4
74798-12	0	0	0	8/ 8	100	6/ 6	100	14	8	6	8	6	4	4	4	4	4	4	4	4	4	4
74802-10	0	0	0	10/10	100	4/ 4	100	14	10	4	10	4	4	4	4	4	4	4	4	4	4	4
74809-08	0	0	0	5/ 5	100	9/ 9	100	14	5	9	5	9	4	4	4	4	4	4	4	4	4	4
74816-12	0	0	0	8/ 8	100	8/ 8	100	16	8	8	8	8	4	4	4	4	4	4	4	4	4	4
74819-10	0	0	0	11/11	100	5/ 5	100	16	11	5	11	5	4	4	4	4	4	4	4	4	4	4
74823-12	0	0	0	9/ 9	100	6/ 6	100	15	8	6	7	6	4	4	4	4	4	4	4	4	4	4
74835-07	0	0	0	6/ 6	100	7/ 7	100	13	5	7	5	7	4	4	4	4	4	4	4	4	4	4
74838-11	0	0	0	7/ 7	100	10/10	100	17	7	10	7	10	4	4	4	4	4	4	4	4	4	4
74846-07	0	0	0	4/ 4	100	9/ 9	100	13	4	9	4	9	4	4	4	4	4	4	4	4	4	4
74856-15	0	0	0	6/ 6	100	7/ 7	100	13	6	7	6	7	4	4	4	4	4	4	4	4	4	4
74859-09	0	0	0	9/ 9	100	6/ 6	100	15	9	6	9	6	4	4	4	4	4	4	4	4	4	4
74859-12	0	0	0	6/ 6	100	7/ 7	100	13	6	7	6	7	4	4	4	4	4	4	4	4	4	4
74861-05	0	0	0	2/ 2	100	3/ 3	100	5	2	3	2	3	2	3	1	2	0	0	0	0	0	0
74869-04	0	0	0	13/13	100	3/ 3	100	16	13	3	13	3	5	3	5	3	5	3	5	3	5	3
TOTAL	0	0	0	193/193		155/155		348	191	154	189	151	100	97	99	95	97	93	97	93	97	93

M = MALE, F = FEMALE, U = UNDETERMINED

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 LITTERS FROM GROUP 3: 1000 PPM  
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NUMBER OF VIABLE PUPS

DAM #	NO. DEAD DAY 0			NO. VIABLE DAY 0				TOTAL	DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21			
	M	F	U	M	%	F	%		M	F	M	F	M	F	M	F	M	F	M	F		
	74738-07	0	0	0	4/ 4	100	9/ 9		100	13	4	9	4	9	4	4	4	4	4	4	4	4
74738-12	0	0	0	5/ 5	100	8/ 8	100	13	5	8	5	8	4	4	4	4	4	4	4	4	4	
74743-08	0	0	0	10/10	100	5/ 5	100	15	10	5	10	5	4	4	4	4	4	4	4	4	4	
74748-11	0	0	0	4/ 4	100	11/11	100	15	4	11	4	11	4	4	4	4	3	4	4	3	4	
74752-10	0	0	0	8/ 8	100	9/ 9	100	17	8	9	8	9	4	4	4	4	4	4	4	4	4	
74780-04	0	0	0	7/ 7	100	7/ 7	100	14	7	7	7	6	4	4	4	4	4	4	4	4	4	
74791-13	0	0	0	5/ 5	100	7/ 7	100	12	5	7	5	7	4	4	4	4	4	4	4	4	4	
74793-14	0	0	0	8/ 8	100	5/ 5	100	13	8	5	8	5	4	4	4	4	4	4	4	4	4	
74799-14	0	0	0	10/10	100	5/ 5	100	15	9	4	8	4	4	4	4	4	4	4	4	4	4	
74806-11	0	0	0	6/ 6	100	7/ 7	100	13	6	7	6	7	4	4	4	4	4	4	4	4	4	
74820-12	1	0	0	2/ 3	67	10/10	100	12	2	10	2	10	2	6	2	6	2	6	2	6	2	6
74821-09	0	0	0	5/ 5	100	8/ 8	100	13	5	8	5	8	4	4	4	4	4	4	4	4	4	
74821-07	0	0	0	10/10	100	7/ 7	100	17	10	7	10	7	4	4	4	4	4	4	4	4	4	
74831-12	1	0	0	8/ 9	89	9/ 9	100	17	7	9	7	8	4	4	4	3	4	3	4	3	4	
74834-07	1	0	0	2/ 3	67	6/ 6	100	8	2	6	2	6	2	6	2	6	2	6	2	6	2	6
74847-09	0	0	0	7/ 7	100	7/ 7	100	14	7	7	7	7	4	4	4	4	4	4	4	4	4	
74848-04	0	1	0	10/10	100	7/ 8	88	17	10	7	10	7	4	4	4	4	4	4	4	4	4	
74849-07	0	0	0	7/ 7	100	7/ 7	100	14	7	7	7	7	4	4	4	4	4	4	4	4	4	
74850-11	0	0	0	9/ 9	100	4/ 4	100	13	9	4	9	4	4	4	4	4	4	4	4	4	4	
74850-14	0	0	0	6/ 6	100	6/ 6	100	12	6	6	6	6	4	4	4	4	4	4	4	4	4	
74855-11	0	0	0	6/ 6	100	7/ 7	100	13	5	7	5	7	4	4	4	4	4	4	4	4	4	
74868-20	0	0	0	5/ 5	100	7/ 7	100	12	5	7	5	7	4	4	4	4	4	4	4	4	4	
74871-09	0	0	0	8/ 8	100	6/ 6	100	14	8	6	8	6	4	4	4	4	4	4	4	4	3	
TOTAL	3	1	0	152/155		164/165		316	149	163	148	161	88	96	88	95	87	95	87	94		

M = MALE, F = FEMALE, U = UNDETERMINED

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-----  
 LITTERS FROM GROUP 4: 2500 PPM  
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NUMBER OF VIABLE PUPS

DAM #	NO. DEAD DAY 0			NO. VIABLE DAY 0				TOTAL	DAY 1		BEFORE SELECTION DAY 4		AFTER SELECTION DAY 4		DAY 7		DAY 14		DAY 21	
	M	F	U	M	%	F	%		M	F	M	F	M	F	M	F	M	F	M	F
	74751-13	0	0	0	8/ 8	100	7/ 7		100	15	8	7	8	7	4	4	3	4	3	4
74754-15	0	0	0	7/ 7	100	8/ 8	100	15	7	8	7	8	4	4	4	4	4	4	4	4
74768-11	0	0	0	8/ 8	100	9/ 9	100	17	8	9	8	9	4	4	4	4	3	4	3	4
74769-08	2	0	0	5/ 7	71	4/ 4	100	9	5	4	5	4	4	4	4	4	4	4	4	4
74770-11	0	0	0	7/ 7	100	8/ 8	100	15	7	8	7	8	4	4	4	4	4	4	4	4
74770-10	0	0	0	11/11	100	5/ 5	100	16	11	5	11	5	4	4	4	4	4	4	4	4
74786-10	0	0	0	11/11	100	7/ 7	100	18	11	7	11	7	4	4	4	4	4	4	4	4
74792-12	0	0	0	7/ 7	100	7/ 7	100	14	7	7	7	7	4	4	4	4	4	4	4	4
74807-08	0	1	0	8/ 8	100	7/ 8	88	15	8	7	8	7	4	4	4	4	4	4	4	4
74811-13	0	0	0	6/ 6	100	4/ 4	100	10	6	4	6	4	4	4	4	4	4	4	4	4
74817-13	0	0	0	6/ 6	100	10/10	100	16	6	10	6	10	4	4	4	4	4	4	4	4
74822-08	0	0	0	6/ 6	100	8/ 8	100	14	6	8	6	8	4	4	4	4	4	4	4	4
74827-11	0	0	0	6/ 6	100	5/ 5	100	11	6	5	6	5	4	4	4	3	4	3	4	3
74832-07	0	0	0	9/ 9	100	5/ 5	100	14	9	5	9	5	4	4	4	4	4	4	4	4
74833-11	1	0	0	7/ 8	88	6/ 6	100	13	7	6	7	6	4	4	4	4	4	4	4	4
74836-12	1	0	0	5/ 6	83	9/ 9	100	14	5	8	5	8	4	4	4	4	4	4	4	4
74836-11	0	0	0	10/10	100	6/ 6	100	16	10	6	10	6	4	4	4	4	4	4	4	4
74853-11	0	0	0	8/ 8	100	9/ 9	100	17	8	9	8	9	4	4	4	4	4	4	4	4
74853-12	0	0	0	4/ 4	100	4/ 4	100	8	4	4	4	4	4	4	4	4	4	4	4	4
74857-09	0	0	0	8/ 8	100	4/ 4	100	12	8	4	8	4	4	4	4	4	4	4	4	4
74860-08	0	0	0	5/ 5	100	8/ 8	100	13	5	7	5	7	4	4	4	4	4	4	4	4
74862-13	1	0	0	7/ 8	88	6/ 6	100	13	7	6	7	6	4	4	4	4	4	4	4	4
74866-16	0	0	0	8/ 8	100	5/ 5	100	13	8	5	8	5	4	4	4	4	4	4	4	4
74870-03	0	0	0	7/ 7	100	9/ 9	100	16	7	9	7	9	4	4	4	4	4	4	4	4
TOTAL	5	1	0	174/179		160/161		334	174	158	174	158	96	96	95	95	94	95	94	95

M = MALE, F = FEMALE, U = UNDETERMINED

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LITTERS FROM GROUP 1:		0 PPM																		
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74737-10	21-APR-02	a21	C	a21	a21	a21	C	a21	a21	a21	C	C	C	a21	C	C				
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F	F
74759-09	23-APR-02	a21	C	C	a21	a21	C	C	a21	C	a21	a21	a21	a21						
		M	M	M	M	M	M	M	M	M	F	F	F	F						
74764-10	21-APR-02	a21	a21	a21	C	a21	C	C	C	a21	C	a21	C	a21	a21	C				
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F
74767-16	23-APR-02	C	a21	a21	a21	C	a21	a21	a21	C	C	a21	C	a21	C	C	C	C	C	C
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F
74767-10	22-APR-02	a21	a21	a21	a21	a21	C	a21	a21	C	C	a21	C							
		M	M	M	M	F	F	F	F	F	F	F	F							
74772-09	22-APR-02	a21	a21	C	a21	C	a21	a21	C	a21	a21	C	16	C	1					
		M	M	M	M	M	M	F	F	F	F	F	F	F	M					
74773-15	29-APR-02	a21	a21	a21	a21	a21	a21													
		M	M	M	M	F	F													
74773-08	20-APR-02	0	C	a21	a21	C	a21	C	a21	a21	C	C	a21	a21	a21	C				
		M	M	M	M	M	M	M	M	M	F	F	M	F	F	F	F	F	F	M
74789-10	23-APR-02	C	a21	C	a21	a21	a21	C	C	a21	a21	C	a21	C	a21					
		F	M	F	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 1:		0 PPM																		
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74789-09	23-APR-02	4	C	a21	a21	C	a21	C	C	C	C	a21	a21	a21	C	C	a21			
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F			
74804-11	01-MAY-02	0	a21																	
		M	M	M	M	F	F	F	F	F										
74804-08	20-APR-02	C	a21	C	a21	C	a21	a21	C	a21	a21	C	a21	a21	C	C				
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F			
74808-13	23-APR-02	a21	a21	C	1	a21	a21	C	C	C	C	a21	a21	C	a21	a21				
		M	M	M	M	M	M	F	M	M	F	F	F	F	F	F	F			
74808-11	23-APR-02	C	C	a21	a21	a21	a21	C	C	C	a21	C	a21	C	a21	C	a21	C	a21	
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F
74810-16	21-APR-02	a21	C	C	a21	a21	a21	a21	C	a21	a21	a21	a21	C						
		M	M	M	M	M	M	F	F	F	F	F	F	F						
74826-08	20-APR-02	C	a21	a21	C	C	a21	C	a21	a21	a21	a21	a21	C	C	C	a21			
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F			
74829-11	21-APR-02	C	a21	a21	C	a21	a21	a21	a21	C	a21	C	a21	C	C	C	C	C	C	C
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F
74840-03	27-APR-02	a21	a21	a21	a21	a21	a21													
		M	M	M	F	F	F													

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 225 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP VIABILITY

PAGE 3

-----																				
LITTERS FROM GROUP 1: 0 PPM																				
-----																				
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-----																				
74841-12	23-APR-02	a21	a21	a21	a21	a21	C	C	a21	a21	a21	C	C	C	C					
		M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
74844-07	26-APR-02	a21	a21	C	a21	a21	C	a21	a21	C	C	C	a21	a21						
		M	M	M	M	M	F	F	F	F	F	F	F	F	F	F				
74845-07	20-APR-02	0	a21	a21	a21	a21	C	C	C	a21	C	a21	a21	a21	C					
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F				
74867-07	23-APR-02	a21	a21	a21	a21	C	a21	a21	a21	a21										
		M	M	M	F	F	F	F	F	F										
-----																				

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 2:		500 PPM																		
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74742-18	20-APR-02	a21	C	a21	a21	a21	C	a21	C	a21	C	a21	a21							
		M	M	M	M	M	M	M	F	F	F	F	F	F						
74746-10	20-APR-02	C	C	a21	8	C	a21	C	C	a21	C	6	C	C	C	a21	a21	a21		
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F
74753-12	22-APR-02	C	a21	C	C	C	a21	C	a21	a21	C	a21	C	4	a21	4	a21	a21		
		M	M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F
74761-12	20-APR-02	a21	a21	a21	a21	a21	C	C	a21	a21	2	a21								
		M	M	M	M	F	F	F	F	F	F	F	F							
74762-11	22-APR-02	a21	C	C	a21	a21	a21	a21	C	C	a21	a21	a21	C	1					
		M	M	M	M	M	M	F	F	F	F	F	F	F	F					
74782-09	21-APR-02	C	C	a21																
		M	M	M	M	M	F	F	F	F	M									
74785-08	22-APR-02	a21	C	a21	C	a21	C	a21	C	C	a21	a21	a21	a21						
		M	M	M	M	M	M	M	M	M	F	F	F	F						
74790-15	24-APR-02	a21	C	C	a21	a21	C	C	a21	C	C	C	C	a21	a21	a21	a21			
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F
74790-14	23-APR-02	a21	C	a21	C	a21	a21	C	a21	C	a21	a21	a21							
		M	M	M	M	M	M	M	F	M	F	F	F							

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 2:		500 PPM																		
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74796-15	22-APR-02	a21	a21	a21	a21	C	C	C	a21	C	2	C	a21	C	a21	C	a21	C	a21	C
		M	M	F	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F
74798-13	22-APR-02	a21	a21	a21	a21	C	C	C	C	a21	a21	C	a21	C	C	a21				
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F			
74798-12	22-APR-02	C	C	a21	a21	C	C	a21	a21	a21	a21	C	C	a21	a21					
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F				
74802-10	27-APR-02	C	C	a21	C	a21	a21	C	a21	C	a21	a21	a21	C	a21					
		M	M	M	M	M	M	M	M	M	F	F	F	F	M	F				
74809-08	22-APR-02	C	a21	a21	a21	a21	a21	a21	C	C	a21	C	C	a21	C					
		M	M	M	M	M	F	F	F	F	F	F	F	F	F					
74816-12	24-APR-02	a21	a21	a21	C	C	C	C	a21	C	C	a21	C	a21	a21	a21	C	a21		
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F
74819-10	23-APR-02	C	C	C	C	C	a21	a21	C	a21	a21	C	a21	a21	a21	a21	a21	C		
		M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F
74823-12	23-APR-02	a21	a21	C	2	a21	a21	1	C	C	a21	C	a21	a21	a21	a21	C			
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F			
74835-07	23-APR-02	C	1	a21	C	C	C	a21												
		M	M	M	M	M	M	F	F	F	F	F	F	F						

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----																				
LITTERS FROM GROUP 2: 500 PPM																				
-----																				
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-----																				
74838-11	20-APR-02	a21	C	a21	a21	C	a21	C	C	C	C	C	a21	C	C	a21	a21	C	a21	
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	
74846-07	24-APR-02	a21	a21	a21	a21	a21	C	C	a21	C	a21	C	C	a21						
		M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74856-15	20-APR-02	a21	C	a21	C	a21	a21	a21	C	C	a21	a21	C	a21						
		M	M	M	M	M	F	F	F	F	F	F	F	M						
74859-09	20-APR-02	a21	a21	C	C	C	C	a21	C	a21	C	a21	C	a21	a21	a21				
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F			
74859-12	20-APR-02	C	a21	C	a21	a21	a21	a21	C	C	C	a21	a21	a21						
		M	M	M	M	M	M	F	F	F	F	F	F	F						
74861-05	20-APR-02	6	14	14	6	9														
		M	M	F	F	F														
74869-04	23-APR-02	a21	C	a21	C	a21	C	a21	C	a21	C	C	C	C	a21	a21	a21			
		M	M	M	M	M	M	M	M	M	M	M	M	M	F	F	F			
-----																				

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----																				
LITTERS FROM GROUP 3: 1000 PPM																				
-----																				
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-----																				
74738-07	22-APR-02	a21	a21	a21	a21	C	C	a21	C	C	a21	a21	a21	C						
		M	M	M	M	F	F	F	F	F	F	F	F	F	F					
74738-12	22-APR-02	a21	C	a21	a21	a21	C	C	a21	a21	a21	a21	C	C						
		M	M	M	M	M	F	F	F	F	F	F	F	F	F					
74743-08	23-APR-02	a21	C	C	a21	C	C	C	a21	C	a21	a21	a21	a21	C	a21				
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F			
74748-11	25-APR-02	8	a21	a21	a21	C	C	C	a21	C	C	C	C	a21	a21	a21				
		M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F			
74752-10	20-APR-02	a21	C	C	C	a21	a21	a21	C	a21	a21	a21	C	C	C	C	a21	C		
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F
74780-04	26-APR-02	C	C	a21	a21	C	a21	a21	C	a21	a21	a21	C	3	a21					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F					
74791-13	21-APR-02	C	a21	a21	a21	a21	a21	a21	C	C	C	a21	a21							
		M	M	M	M	M	F	F	F	F	F	F	F	F						
74793-14	21-APR-02	C	a21	C	a21	a21	C	C	a21	C	a21	a21	a21	a21						
		M	M	M	M	M	M	M	M	F	F	F	F	F	F					
74799-14	21-APR-02	C	a21	C	a21	a21	C	a21	1	3	C	a21	a21	a21	1	a21				
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F				

-----  
 A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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 LITTERS FROM GROUP 3: 1000 PPM  
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DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74806-11	23-APR-02	a21	C	a21	C	a21	a21	a21	a21	a21	a21	C	a21	C	C					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F					
74820-12	21-APR-02	0	a21	a21	a21	a21	C	a21	a21	C	a21	C	a21	C						
		M	M	M	F	F	F	F	F	F	F	F	F	F	F					
74821-09	20-APR-02	a21	a21	C	a21	a21	a21	C	a21	a21	C	C	a21	C						
		M	M	M	M	M	F	F	F	F	F	F	F	F	F					
74821-07	23-APR-02	a21	C	C	a21	C	C	a21	C	a21	C	a21	a21	a21	a21	C	C	C		
		M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F
74831-12	23-APR-02	0	C	a21	a21	1	a21	a21	C	C	a21	a21	2	C	C	C	a21	C	7	
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F
74834-07	23-APR-02	0	a21																	
		M	M	M	F	F	F	F	F	F										
74847-09	23-APR-02	C	a21	C	a21	a21	a21	C	a21	C	a21	C	a21	a21	C					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F					
74848-04	21-APR-02	0	a21	C	a21	C	C	C	a21	a21	C	C	C	C	a21	a21	a21	a21	C	
		F	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F
74849-07	20-APR-02	a21	a21	a21	C	C	C	a21	C	C	a21	C	a21	a21	a21					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F					

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A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 225 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP VIABILITY

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 LITTERS FROM GROUP 3: 1000 PPM  
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DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74850-11	23-APR-02	C	a21	a21	C	a21	a21	C	C	C	a21	a21	a21	a21						
		M	M	M	M	M	M	M	M	M	M	F	F	F	F					
74850-14	28-APR-02	a21	C	a21	C	a21	a21	a21	C	C	a21	a21	a21							
		M	M	M	M	M	M	M	F	F	F	F	F	F						
74855-11	20-APR-02	1	a21	C	a21	a21	C	C	a21	a21	a21	C	a21	a21						
		M	M	M	M	M	F	F	F	F	F	F	F	F	M					
74868-20	21-APR-02	a21	a21	C	a21	a21	a21	C	a21	C	C	a21	a21							
		F	M	M	M	M	M	F	F	F	F	F	F	F						
74871-09	29-APR-02	a21	a21	C	a21	a21	C	C	C	a21	C	a21	16	a21	C					
		M	M	M	M	M	M	M	M	F	F	F	F	F	F					

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A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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LITTERS FROM GROUP 4: 2500 PPM																				
-----																				
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-----																				
74751-13	20-APR-02	5	C	C	C	C	a21	a21	a21	C	a21	a21	C	a21	a21	C				
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F			
74754-15	21-APR-02	a21	C	C	a21	a21	a21	C	a21	C	a21	C	a21	a21	C	C				
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F			
74768-11	20-APR-02	a21	a21	C	C	C	8	a21	C	a21	C	a21	C	a21	C	C	C	C	a21	
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F
74769-08	22-APR-02	0	0	a21	a21	a21	a21	C	a21	a21	a21	a21								
		M	M	M	M	M	M	M	F	F	F	F								
74770-11	22-APR-02	C	a21	C	a21	a21	C	a21	a21	a21	C	C	a21	C	C	a21				
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F			
74770-10	21-APR-02	a21	C	a21	C	a21	a21	C	C	C	C	C	a21	a21	a21	C	a21			
		M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F		
74786-10	23-APR-02	C	C	a21	C	C	C	C	a21	a21	a21	C	a21	C	C	a21	C	a21	a21	
		M	M	M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F
74792-12	22-APR-02	a21	C	C	a21	a21	C	a21	a21	C	C	C	a21	a21	a21					
		M	M	M	M	M	M	M	F	F	F	F	F	F	F					
74807-08	22-APR-02	0	C	C	C	a21	a21	a21	C	a21	C	a21	a21	C	a21	a21	C			
		F	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F		
-----																				

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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-----																				
LITTERS FROM GROUP 4: 2500 PPM																				
-----																				
DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-----																				
74811-13	22-APR-02	C	a21	a21	a21	C	a21	a21	a21	a21	a21	a21								
		M	M	M	M	M	M	M	F	F	F	F								
74817-13	22-APR-02	C	C	a21	a21	a21	a21	C	a21	a21	C	C	a21	C	C	a21	C			
		M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F	F	F
74822-08	23-APR-02	a21	a21	C	a21	a21	a21	a21	a21	C	a21	C	C	C	C					
		M	M	M	M	M	F	F	F	F	F	F	M	F	F					
74827-11	22-APR-02	a21	C	a21	C	a21	a21	a21	5	C	a21	a21								
		M	M	M	M	M	M	F	F	F	F	F								
74832-07	26-APR-02	C	C	a21	C	C	a21	C	a21	a21	a21	C	a21	a21	a21					
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	M				
74833-11	20-APR-02	0	C	C	a21	a21	C	a21	a21	a21	C	a21	a21	C	a21					
		M	M	M	M	M	M	M	M	F	F	F	F	F	F					
74836-12	21-APR-02	0	C	a21	C	a21	a21	a21	a21	C	C	a21	C	1	a21	a21				
		M	F	M	M	M	M	M	F	F	F	F	F	F	F	F				
74836-11	23-APR-02	C	C	C	a21	a21	a21													
		M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F
74853-11	20-APR-02	C	C	C	a21	a21	a21	a21	C	C	C	C	a21	C	a21	C	a21	a21		
		M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F	F
-----																				

A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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 LITTERS FROM GROUP 4: 2500 PPM  
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DAM #	DAY OF BIRTH	PUP #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
74853-12	23-APR-02	a21	a21	a21	a21	a21	a21	a21	a21	a21										
		M	M	M	M	F	F	F	F											
74857-09	28-APR-02	a21	a21	C	C	a21	a21	C	a21	a21	a21	a21	C							
		M	M	M	M	M	M	M	M	F	F	F	F	M						
74860-08	20-APR-02	a21	C	a21	a21	a21	a21	C	a21	C	C	1	a21	a21						
		M	M	M	M	M	F	F	F	F	F	F	F	F	F					
74862-13	23-APR-02	0	a21	a21	C	C	C	a21	a21	C	a21	a21	C	a21	a21					
		M	M	M	M	M	M	M	M	M	F	F	F	F	F	F				
74866-16	20-APR-02	a21	C	C	C	a21	C	a21	a21	C	a21	a21	a21	a21						
		M	M	M	M	M	M	M	M	M	F	F	F	F	F					
74870-03	25-APR-02	C	C	a21	a21	a21	C	a21	C	a21	a21	C	C	C	a21	C	a21			
		M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F			

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A = ALIVE, NUMBER INDICATES POSTNATAL DAY WHEN DEATH OCCURRED, C = CULLED DAY 4  
 M = MALE, F = FEMALE, U = UNDETERMINED  
 a=SCHEDULED EUTHANASIA

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74737-10	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
74759-09	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74759-09	13	F	SCHEDULED EUTHANASIA	21
74764-10	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
74767-16	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SMALL IN SIZE	14
		SMALL IN SIZE	21	
		SCHEDULED EUTHANASIA	21	

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP CLINICAL OBSERVATIONS

PAGE 3

ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74767-16	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	DEHYDRATED	4
			CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	CULLED ON SCHEDULED DAY	4
74767-10	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
74772-09	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP CLINICAL OBSERVATIONS

PAGE 4

ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74772-09	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SMALL IN SIZE	7
			SMALL IN SIZE	14
			UNEVEN HAIR GROWTH	14
			SMALL IN SIZE	21
			UNEVEN HAIR GROWTH	21
			SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SWOLLEN LEFT CORNER OF MOUTH	7
			FOUND DEAD	16
	13	F	CULLED ON SCHEDULED DAY	4
14	M	MISSING	1	
74773-15	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
74773-08	1	M	FOUND DEAD	0
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74773-08	6	M	SCHEDULED EUTHANASIA	21	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	21	
	9	F	SCHEDULED EUTHANASIA	21	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	M	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	21	
	13	F	SCHEDULED EUTHANASIA	21	
	14	F	SCHEDULED EUTHANASIA	21	
	15	M	CULLED ON SCHEDULED DAY	4	
	74789-10	1	F	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	21
		3	F	CULLED ON SCHEDULED DAY	4
		4	M	SCHEDULED EUTHANASIA	21
		5	M	SCHEDULED EUTHANASIA	21
6		M	SCHEDULED EUTHANASIA	21	
7		F	CULLED ON SCHEDULED DAY	4	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	21	
10		F	SCHEDULED EUTHANASIA	21	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	21	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	21	
74789-09	1	M	FOUND DEAD DUE TO APPARENT MECHANICAL INJURY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74789-09	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
	74804-11	1	M	FOUND DEAD
2		M	SCHEDULED EUTHANASIA	21
3		M	SCHEDULED EUTHANASIA	21
4		M	SCHEDULED EUTHANASIA	21
5		F	SCHEDULED EUTHANASIA	21
6		F	LACERATION(S) ANOGENITAL AREA	1
			SCHEDULED EUTHANASIA	21
7		F	SCHEDULED EUTHANASIA	21
8	F	SCHEDULED EUTHANASIA	21	
74804-08	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74804-08	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	F	SCABBING	4
			CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	74808-13	1	M	SCHEDULED EUTHANASIA
2		M	SCHEDULED EUTHANASIA	21
3		M	CULLED ON SCHEDULED DAY	4
4		M	FOUND DEAD	1
5		M	SCHEDULED EUTHANASIA	21
6		M	SCHEDULED EUTHANASIA	21
7		F	CULLED ON SCHEDULED DAY	4
8		M	CULLED ON SCHEDULED DAY	4
9		M	CULLED ON SCHEDULED DAY	4
10		F	CULLED ON SCHEDULED DAY	4
11		F	SCHEDULED EUTHANASIA	21
12		F	SCHEDULED EUTHANASIA	21
13		F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74808-13	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
74808-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	21
74810-16	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4

ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74810-16	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
74826-08	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
74829-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21

ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74829-11	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
74840-03	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	F	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
74841-12	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74841-12	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
74844-07	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
74845-07	1	M	FOUND DEAD PARTIALLY CANNIBALIZED	0
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 1: 0 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74845-07	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
74867-07	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	F	SCHEDULED EUTHANASIA	21
	5	F	CULLED ON SCHEDULED DAY	4
	6	F	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21

ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74742-18	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
74746-10	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	FOUND DEAD	8
			PARTIALLY CANNIBALIZED	
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	21
	10	M	CULLED ON SCHEDULED DAY	4
	11	F	SMALL IN SIZE	4
			FOUND DEAD	6
12	F	CULLED ON SCHEDULED DAY	4	
13	F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74746-10	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
	16	F	SCHEDULED EUTHANASIA	21
	17	F	SCHEDULED EUTHANASIA	21
74753-12	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SMALL IN SIZE SCHEDULED EUTHANASIA	7 21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	M	SCHEDULED EUTHANASIA	21
	10	M	CULLED ON SCHEDULED DAY	4
	11	M	SCHEDULED EUTHANASIA	21
	12	M	CULLED ON SCHEDULED DAY	4
	13	M	FOUND DEAD	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	FOUND DEAD	4
	16	F	SCHEDULED EUTHANASIA	21
	17	F	SCHEDULED EUTHANASIA	21
74761-12	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74761-12	5	F	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SMALL IN SIZE MISSING	1 2
	11	F	SCHEDULED EUTHANASIA	21
74762-11	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	MISSING	1
74782-09	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74782-09	5	M	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	M	SCHEDULED EUTHANASIA	21
74785-08	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCABBING DORSAL NOSE SCHEDULED EUTHANASIA	1 21
74790-15	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74790-15	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	21	
	9	M	CULLED ON SCHEDULED DAY	4	
	10	M	CULLED ON SCHEDULED DAY	4	
	11	M	CULLED ON SCHEDULED DAY	4	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	21	
	14	F	SCHEDULED EUTHANASIA	21	
	15	F	SCHEDULED EUTHANASIA	21	
	16	F	SCHEDULED EUTHANASIA	21	
	74790-14	1	M	SCHEDULED EUTHANASIA	21
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	21
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	SCHEDULED EUTHANASIA	21
6		M	SCHEDULED EUTHANASIA	21	
7		M	CULLED ON SCHEDULED DAY	4	
8		F	SCHEDULED EUTHANASIA	21	
9		M	CULLED ON SCHEDULED DAY	4	
10		F	SCHEDULED EUTHANASIA	21	
11		F	SCHEDULED EUTHANASIA	21	
12		F	SCHEDULED EUTHANASIA	21	
74796-15	1	M	SCHEDULED EUTHANASIA	21	
	2	M	SCHEDULED EUTHANASIA	21	
	3	F	SCHEDULED EUTHANASIA	21	

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 SPONSOR:ACC

TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74796-15	4	M	SCHEDULED EUTHANASIA	21	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	21	
	9	M	CULLED ON SCHEDULED DAY	4	
	10	F	MISSING	2	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	21	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	21	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	21	
	17	F	CULLED ON SCHEDULED DAY	4	
	74798-13	1	M	SCHEDULED EUTHANASIA	21
		2	M	SCHEDULED EUTHANASIA	21
		3	M	SCHEDULED EUTHANASIA	21
4		M	SCHEDULED EUTHANASIA	21	
5		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	CULLED ON SCHEDULED DAY	4	
9		F	SCHEDULED EUTHANASIA	21	
10		F	SCHEDULED EUTHANASIA	21	
11		F	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	21	
13		F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74798-13	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
74798-12	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
74802-10	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74802-10	11	F	SCHEDULED EUTHANASIA	21	
	12	F	SCHEDULED EUTHANASIA	21	
	13	M	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	21	
74809-08	1	M	CULLED ON SCHEDULED DAY	4	
	2	M	SCHEDULED EUTHANASIA	21	
	3		M	SMALL IN SIZE	7
				SMALL IN SIZE	14
				SMALL IN SIZE	21
				SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21	
	5	M	SCHEDULED EUTHANASIA	21	
	6	F	SCHEDULED EUTHANASIA	21	
	7	F	SCHEDULED EUTHANASIA	21	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	21	
	11	F	CULLED ON SCHEDULED DAY	4	
12	F	CULLED ON SCHEDULED DAY	4		
13	F	SCHEDULED EUTHANASIA	21		
14	F	CULLED ON SCHEDULED DAY	4		
74816-12	1	M	SCHEDULED EUTHANASIA	21	
	2	M	SCHEDULED EUTHANASIA	21	
	3	M	SCHEDULED EUTHANASIA	21	
	4	M	CULLED ON SCHEDULED DAY	4	
	5	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74816-12	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	SCHEDULED EUTHANASIA	21	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	21	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	SCHEDULED EUTHANASIA	21	
	14	F	SCHEDULED EUTHANASIA	21	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	21	
	74819-10	1	M	CULLED ON SCHEDULED DAY	4
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	CULLED ON SCHEDULED DAY	4
		4	M	CULLED ON SCHEDULED DAY	4
		5	M	CULLED ON SCHEDULED DAY	4
6		M	SCHEDULED EUTHANASIA	21	
7		M	SCHEDULED EUTHANASIA	21	
8		M	CULLED ON SCHEDULED DAY	4	
9		M	SCHEDULED EUTHANASIA	21	
10		M	SCHEDULED EUTHANASIA	21	
11		M	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	21	
13		F	SCHEDULED EUTHANASIA	21	
14		F	SCHEDULED EUTHANASIA	21	
15		F	SCHEDULED EUTHANASIA	21	
16		F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74823-12	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	FOUND DEAD	2
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	FOUND DEAD	1
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
74835-07	1	M	CULLED ON SCHEDULED DAY	4
	2	M	MISSING	1
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SMALL IN SIZE	7
			SMALL IN SIZE	14
			SMALL IN SIZE	21
			HAIR LOSS	21
		DORSAL POSTERIOR AREA		
		SCHEDULED EUTHANASIA	21	
5	M	SCHEDULED EUTHANASIA	21	
6	M	SCHEDULED EUTHANASIA	21	
7	F	SCHEDULED EUTHANASIA	21	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74835-07	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	HAIR LOSS	21
			RIGHT VENTRAL ABDOMINAL AREA SCHEDULED EUTHANASIA	21
74838-11	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	SCHEDULED EUTHANASIA	21
74846-07	1	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74846-07	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	74856-15	1	M	SCHEDULED EUTHANASIA
2		M	CULLED ON SCHEDULED DAY	4
3		M	SCHEDULED EUTHANASIA	21
4		M	CULLED ON SCHEDULED DAY	4
5		M	SCHEDULED EUTHANASIA	21
6		F	SCHEDULED EUTHANASIA	21
7		F	SCHEDULED EUTHANASIA	21
8		F	CULLED ON SCHEDULED DAY	4
9		F	CULLED ON SCHEDULED DAY	4
10		F	SCHEDULED EUTHANASIA	21
11		F	SCHEDULED EUTHANASIA	21
12		F	CULLED ON SCHEDULED DAY	4
13		M	SCHEDULED EUTHANASIA	21
74859-09	1	M	SCHEDULED EUTHANASIA	21

ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74859-09	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
	74859-12	1	M	CULLED ON SCHEDULED DAY
2		M	SCHEDULED EUTHANASIA	21
3		M	CULLED ON SCHEDULED DAY	4
4		M	SCHEDULED EUTHANASIA	21
5		M	SCHEDULED EUTHANASIA	21
6		M	SCHEDULED EUTHANASIA	21
7		F	SCHEDULED EUTHANASIA	21
8		F	CULLED ON SCHEDULED DAY	4
9		F	CULLED ON SCHEDULED DAY	4
10		F	CULLED ON SCHEDULED DAY	4
11		F	SCHEDULED EUTHANASIA	21
12		F	SCHEDULED EUTHANASIA	21
13		F	SCHEDULED EUTHANASIA	21

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TABLE 226 (F2)  
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 INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 2: 500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74861-05	1	M	FOUND DEAD	6
	2	M	FOUND DEAD	14
	3	F	FOUND DEAD	14
	4	F	FOUND DEAD	6
	5	F	FOUND DEAD	9
74869-04	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	21
	10	M	CULLED ON SCHEDULED DAY	4
	11	M	CULLED ON SCHEDULED DAY	4
	12	M	SMALL IN SIZE	1
			CULLED ON SCHEDULED DAY	4
	13	M	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
16	F	SCHEDULED EUTHANASIA	21	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74738-07	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	CULLED ON SCHEDULED DAY	4
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
74738-12	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74743-08	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	M	CULLED ON SCHEDULED DAY	4
	10	M	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
74748-11	1	M	PALE IN COLOR SUBCUTANEOUS HEMORRHAGE(S) DORSAL HEAD	7 7
			FOUND DEAD	8
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	F	CULLED ON SCHEDULED DAY	4
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
9	F	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74748-11	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
74752-10	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	21
	17	F	CULLED ON SCHEDULED DAY	4
74780-04	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74780-04	4	M	SCHEDULED EUTHANASIA	21	
	5	M	CULLED ON SCHEDULED DAY	4	
	6	M	SCHEDULED EUTHANASIA	21	
	7	M	SCHEDULED EUTHANASIA	21	
	8	F	CULLED ON SCHEDULED DAY	4	
	9	F	SCHEDULED EUTHANASIA	21	
	10	F	SCHEDULED EUTHANASIA	21	
	11	F	SCHEDULED EUTHANASIA	21	
	12	F	CULLED ON SCHEDULED DAY	4	
	13	F	FOUND DEAD	3	
	14	F	SCHEDULED EUTHANASIA	21	
	74791-13	1	M	CULLED ON SCHEDULED DAY	4
		2	M	SCHEDULED EUTHANASIA	21
		3	M	SCHEDULED EUTHANASIA	21
4		M	SUBCUTANEOUS HEMORRHAGE(S) DORSAL THORACIC AREA	1	
			SCHEDULED EUTHANASIA	21	
5		M	SCHEDULED EUTHANASIA	21	
6		F	SCHEDULED EUTHANASIA	21	
7		F	SCHEDULED EUTHANASIA	21	
8		F	CULLED ON SCHEDULED DAY	4	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
11		F	SCHEDULED EUTHANASIA	21	
12	F	SCHEDULED EUTHANASIA	21		
74793-14	1	M	CULLED ON SCHEDULED DAY	4	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74793-14	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	74799-14	1	M	CULLED ON SCHEDULED DAY
2		M	SCHEDULED EUTHANASIA	21
3		M	CULLED ON SCHEDULED DAY	4
4		M	SCHEDULED EUTHANASIA	21
5		M	SCHEDULED EUTHANASIA	21
6		M	CULLED ON SCHEDULED DAY	4
7		M	SCHEDULED EUTHANASIA	21
8		M	MISSING	1
9		M	FOUND DEAD	3
			PARTIALLY CANNIBALIZED	
10		M	CULLED ON SCHEDULED DAY	4
11		F	SCHEDULED EUTHANASIA	21
12		F	SCHEDULED EUTHANASIA	21
13		F	SCHEDULED EUTHANASIA	21
14	F	MISSING	1	

ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74799-14	15	F	SCHEDULED EUTHANASIA	21
74806-11	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
74820-12	1	M	FOUND DEAD	0
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	F	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	CULLED ON SCHEDULED DAY	4
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21

ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74820-12	13	F	CULLED ON SCHEDULED DAY	4
74821-09	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SMALL IN SIZE	1
			SMALL IN SIZE	4
			SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
12	F	SCHEDULED EUTHANASIA	21	
13	F	CULLED ON SCHEDULED DAY	4	
74821-07	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	21
	10	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74821-07	11	F	SCHEDULED EUTHANASIA	21
	12	F	SMALL IN SIZE	21
			SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	CULLED ON SCHEDULED DAY	4
	17	F	CULLED ON SCHEDULED DAY	4
74831-12	1	M	FOUND DEAD	0
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	FOUND DEAD	1
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SMALL IN SIZE	7
			SCAR ON UPPER RIGHT LIP	14
			SCAR ON UPPER RIGHT LIP	21
		SCHEDULED EUTHANASIA	21	
		HAIR LOSS	14	
		LEFT LATERAL NOSE		
		HAIR LOSS	14	
		RIGHT LATERAL NOSE		
	11	F	SCHEDULED EUTHANASIA	21
	12	F	MISSING	2

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74831-12	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SMALL IN SIZE	1
			CULLED ON SCHEDULED DAY	4
	15	F	SMALL IN SIZE	1
			CULLED ON SCHEDULED DAY	4
	16	F	SMALL IN SIZE	1
			SCAR ON LEFT LATERAL THORACIC AREA	14
			SCHEDULED EUTHANASIA	21
74834-07	17	F	CULLED ON SCHEDULED DAY	4
	18	F	FOUND DEAD	7
	1	M	FOUND DEAD	0
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SMALL IN SIZE	14
			SCHEDULED EUTHANASIA	21
	4	F	SCHEDULED EUTHANASIA	21
	5	F	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
8	F	SMALL IN SIZE	14	
		SMALL IN SIZE	21	
		SCHEDULED EUTHANASIA	21	
74847-09	9	F	SWOLLEN RIGHT CORNER OF MOUTH	7
			SCHEDULED EUTHANASIA	21
	1	M	CULLED ON SCHEDULED DAY	4
		SCHEDULED EUTHANASIA	21	
		CULLED ON SCHEDULED DAY	4	

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TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74847-09	4	M	SCHEDULED EUTHANASIA	21	
	5	M	SCHEDULED EUTHANASIA	21	
	6	M	SCHEDULED EUTHANASIA	21	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	F	SCHEDULED EUTHANASIA	21	
	9	F	CULLED ON SCHEDULED DAY	4	
	10	F	SCHEDULED EUTHANASIA	21	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	21	
	13	F	SCHEDULED EUTHANASIA	21	
	14	F	CULLED ON SCHEDULED DAY	4	
	74848-04	1	F	FOUND DEAD	0
		2	M	SCHEDULED EUTHANASIA	21
		3	M	CULLED ON SCHEDULED DAY	4
4		M	SCHEDULED EUTHANASIA	21	
5		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	SCHEDULED EUTHANASIA	21	
9		M	SCHEDULED EUTHANASIA	21	
10		M	CULLED ON SCHEDULED DAY	4	
11		M	CULLED ON SCHEDULED DAY	4	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	SCHEDULED EUTHANASIA	21	
15		F	SCHEDULED EUTHANASIA	21	
16		F	SCHEDULED EUTHANASIA	21	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74848-04	17	F	SCHEDULED EUTHANASIA	21
	18	F	CULLED ON SCHEDULED DAY	4
74849-07	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SMALL IN SIZE	1
		SMALL IN SIZE	4	
		SCHEDULED EUTHANASIA	21	
74850-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4

ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74850-11	9	M	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
74850-14	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	FILAMENTOUS TAIL	1
		FILAMENTOUS TAIL	4	
		FILAMENTOUS TAIL	0	
		FILAMENTOUS TAIL	7	
		FILAMENTOUS TAIL	14	
		SCHEDULED EUTHANASIA	21	
74855-11	1	M	MISSING	1
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74855-11	5	M	SCHEDULED EUTHANASIA	21	
	6	F	CULLED ON SCHEDULED DAY	4	
	7	F	CULLED ON SCHEDULED DAY	4	
	8	F	SCHEDULED EUTHANASIA	21	
	9	F	SCHEDULED EUTHANASIA	21	
	10	F	SCHEDULED EUTHANASIA	21	
	11	F	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	21	
	13	M	SCHEDULED EUTHANASIA	21	
	74868-20	1	F	FILAMENTOUS TAIL	1
				TAIL ABSENT	4
				TAIL ABSENT	7
				TAIL ABSENT	0
2		M	BORN WITHOUT TAIL		
			TAIL ABSENT	14	
			TAIL ABSENT	21	
			SCHEDULED EUTHANASIA	21	
			SCHEDULED EUTHANASIA	21	
			CULLED ON SCHEDULED DAY	4	
			SCHEDULED EUTHANASIA	21	
			SUBCUTANEOUS HEMORRHAGE(S)	1	
			DORSAL THORACIC AREA		
SCHEDULED EUTHANASIA	21				
SCHEDULED EUTHANASIA	21				
6	M	SCHEDULED EUTHANASIA	21		
7	F	CULLED ON SCHEDULED DAY	4		
8	F	SCHEDULED EUTHANASIA	21		
9	F	CULLED ON SCHEDULED DAY	4		

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TABLE 226 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 3: 1000 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74868-20	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
74871-09	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	FOUND DEAD	16
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74751-13	1	M	FOUND DEAD	5
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	M	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
74754-15	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74754-15	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
74768-11	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	DEHYDRATED	7
			PALE IN COLOR	7
			FOUND DEAD	8
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	CULLED ON SCHEDULED DAY	4
16	F	CULLED ON SCHEDULED DAY	4	
17	F	SCHEDULED EUTHANASIA	21	
74769-08	1	M	FOUND DEAD	0
	2	M	FOUND DEAD	0
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74769-08	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
74770-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
74770-10	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4

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TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74770-10	5	M	SCHEDULED EUTHANASIA	21	
	6	M	SCHEDULED EUTHANASIA	21	
	7	M	CULLED ON SCHEDULED DAY	4	
	8	M	CULLED ON SCHEDULED DAY	4	
	9	M	CULLED ON SCHEDULED DAY	4	
	10	M	CULLED ON SCHEDULED DAY	4	
	11	M	CULLED ON SCHEDULED DAY	4	
	12	F	SCHEDULED EUTHANASIA	21	
	13	F	SCHEDULED EUTHANASIA	21	
	14	F	SCHEDULED EUTHANASIA	21	
	15	F	CULLED ON SCHEDULED DAY	4	
	16	F	SCHEDULED EUTHANASIA	21	
	74786-10	1	M	CULLED ON SCHEDULED DAY	4
		2	M	CULLED ON SCHEDULED DAY	4
		3	M	SCHEDULED EUTHANASIA	21
		4	M	CULLED ON SCHEDULED DAY	4
5		M	CULLED ON SCHEDULED DAY	4	
6		M	CULLED ON SCHEDULED DAY	4	
7		M	CULLED ON SCHEDULED DAY	4	
8		M	SCHEDULED EUTHANASIA	21	
9		M	SCHEDULED EUTHANASIA	21	
10		M	SCHEDULED EUTHANASIA	21	
11		M	CULLED ON SCHEDULED DAY	4	
12		F	SCHEDULED EUTHANASIA	21	
13		F	CULLED ON SCHEDULED DAY	4	
14		F	CULLED ON SCHEDULED DAY	4	
15		F	SCHEDULED EUTHANASIA	21	

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TABLE 226 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74786-10	16	F	CULLED ON SCHEDULED DAY	4
	17	F	SCHEDULED EUTHANASIA	21
	18	F	SCHEDULED EUTHANASIA	21
74792-12	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21
74807-08	1	F	FOUND DEAD	0
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74807-08	10	F	CULLED ON SCHEDULED DAY	4
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
	16	F	CULLED ON SCHEDULED DAY	4
74811-13	1	M	CULLED ON SCHEDULED DAY	4
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
74817-13	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74817-13	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
	15	F	SCHEDULED EUTHANASIA	21
	16	F	CULLED ON SCHEDULED DAY	4
74822-08	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	M	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	CULLED ON SCHEDULED DAY	4
74827-11	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21

ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74827-11	6	M	SCHEDULED EUTHANASIA	21
	7	F	SCHEDULED EUTHANASIA	21
	8	F	SMALL IN SIZE	1
			LABORED RESPIRATION	4
			FOUND DEAD	5
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
11	F	SCHEDULED EUTHANASIA	21	
74832-07	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
	14	M	SCHEDULED EUTHANASIA	21
74833-11	1	M	FOUND DEAD	0
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY	
74833-11	5	M	SCHEDULED EUTHANASIA	21	
	6	M	CULLED ON SCHEDULED DAY	4	
	7	M	SCHEDULED EUTHANASIA	21	
	8	M	SCHEDULED EUTHANASIA	21	
	9	F	SCHEDULED EUTHANASIA	21	
	10	F	CULLED ON SCHEDULED DAY	4	
	11	F	SCHEDULED EUTHANASIA	21	
	12	F	SCHEDULED EUTHANASIA	21	
	13	F	CULLED ON SCHEDULED DAY	4	
	14	F	SCHEDULED EUTHANASIA	21	
	74836-12	1	M	FOUND DEAD	0
		2	F	CULLED ON SCHEDULED DAY LABORED RESPIRATION	4 0
		3	M	SCHEDULED EUTHANASIA	21
		4	M	CULLED ON SCHEDULED DAY	4
5		M	SCHEDULED EUTHANASIA	21	
6		M	SCHEDULED EUTHANASIA	21	
7		M	SCHEDULED EUTHANASIA	21	
8		F	SCHEDULED EUTHANASIA	21	
9		F	CULLED ON SCHEDULED DAY	4	
10		F	CULLED ON SCHEDULED DAY	4	
11		F	SCHEDULED EUTHANASIA	21	
12		F	CULLED ON SCHEDULED DAY	4	
13		F	FOUND DEAD	1	
14		F	SCHEDULED EUTHANASIA	21	
15		F	SCHEDULED EUTHANASIA	21	

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74836-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	M	SCHEDULED EUTHANASIA	21
	9	M	CULLED ON SCHEDULED DAY	4
	10	M	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	SCHEDULED EUTHANASIA	21
	16	F	SCHEDULED EUTHANASIA	21
74853-11	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	SCHEDULED EUTHANASIA	21
	8	M	CULLED ON SCHEDULED DAY	4
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74853-11	12	F	SCHEDULED EUTHANASIA	21
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21
	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	21
	17	F	SCHEDULED EUTHANASIA	21
	74853-12	1	M	SCHEDULED EUTHANASIA
2		M	SCHEDULED EUTHANASIA	21
3		M	SCHEDULED EUTHANASIA	21
4		M	SCHEDULED EUTHANASIA	21
5		F	SCHEDULED EUTHANASIA	21
6		F	SCHEDULED EUTHANASIA	21
7		F	SCHEDULED EUTHANASIA	21
8		F	SCHEDULED EUTHANASIA	21
74857-09	1	M	SCHEDULED EUTHANASIA	21
	2	M	SCHEDULED EUTHANASIA	21
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	SCHEDULED EUTHANASIA	21
	7	M	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	M	CULLED ON SCHEDULED DAY	4

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74860-08	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	F	SCHEDULED EUTHANASIA	21
	7	F	CULLED ON SCHEDULED DAY	4
	8	F	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	CULLED ON SCHEDULED DAY	4
	11	F	MISSING	1
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
74862-13	1	M	FOUND DEAD	0
	2	M	SCHEDULED EUTHANASIA	21
	3	M	SCHEDULED EUTHANASIA	21
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	CULLED ON SCHEDULED DAY	4
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	SCHEDULED EUTHANASIA	21
	14	F	SCHEDULED EUTHANASIA	21

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74866-16	1	M	SCHEDULED EUTHANASIA	21
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	CULLED ON SCHEDULED DAY	4
	4	M	CULLED ON SCHEDULED DAY	4
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	M	SCHEDULED EUTHANASIA	21
	9	F	CULLED ON SCHEDULED DAY	4
	10	F	SCHEDULED EUTHANASIA	21
	11	F	SCHEDULED EUTHANASIA	21
	12	F	SCHEDULED EUTHANASIA	21
	13	F	SCHEDULED EUTHANASIA	21
74870-03	1	M	CULLED ON SCHEDULED DAY	4
	2	M	CULLED ON SCHEDULED DAY	4
	3	M	SCHEDULED EUTHANASIA	21
	4	M	SCHEDULED EUTHANASIA	21
	5	M	SCHEDULED EUTHANASIA	21
	6	M	CULLED ON SCHEDULED DAY	4
	7	M	SCHEDULED EUTHANASIA	21
	8	F	CULLED ON SCHEDULED DAY	4
	9	F	SCHEDULED EUTHANASIA	21
	10	F	SCHEDULED EUTHANASIA	21
	11	F	CULLED ON SCHEDULED DAY	4
	12	F	CULLED ON SCHEDULED DAY	4
	13	F	CULLED ON SCHEDULED DAY	4
	14	F	SCHEDULED EUTHANASIA	21

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 226 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP CLINICAL OBSERVATIONS

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ALL OBSERVATION PERIODS

DAMS FROM GROUP 4: 2500 PPM	PUP #	SEX	PUP GROSS OBSERVATION	POSTNATAL DAY
74870-03	15	F	CULLED ON SCHEDULED DAY	4
	16	F	SCHEDULED EUTHANASIA	21

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74737-10-01	M	7.9	10.0	15.5	29.2	47.7
74737-10-02	M	7.4	9.5			
74737-10-03	M	7.1	8.5	12.4	24.9	41.4
74737-10-04	M	7.3	10.2	15.5	29.4	46.1
74737-10-05	M	7.1	9.0	12.9	24.7	39.6
74737-10-06	F	6.7	9.4			
74737-10-07	F	7.0	9.4	13.7	26.7	43.4
74737-10-08	F	7.0	9.2	14.4	27.6	44.6
74737-10-09	F	7.0	9.1	14.4	27.6	44.9
74737-10-10	F	6.8	9.6			
74737-10-11	F	7.1	8.0			
74737-10-12	F	6.9	8.4			
74737-10-13	F	6.9	10.7	15.7	29.2	46.1
74737-10-14	F	7.6	9.6			
74737-10-15	F	6.5	8.4			
MALES MEAN		7.4	9.4	14.1	27.1	43.7
FEMALES MEAN		7.0	9.2	14.6	27.8	44.8
74759-09-01	M	7.6	11.5	15.8	29.5	46.8
74759-09-02	M	7.2	10.4			
74759-09-03	M	7.5	11.8			
74759-09-04	M	7.5	10.8	14.9	26.4	43.7
74759-09-05	M	7.5	11.3	15.8	29.5	46.2
74759-09-06	M	7.3	11.0			
74759-09-07	M	7.4	11.3			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74759-09-08	M	6.9	10.7	15.0	29.0	45.7
74759-09-09	M	7.3	11.0			
74759-09-10	F	6.7	10.6	15.2	29.2	45.7
74759-09-11	F	7.4	10.8	15.3	27.9	42.4
74759-09-12	F	7.1	10.5	15.4	29.9	49.3
74759-09-13	F	7.6	10.9	15.3	29.1	46.3
MALES MEAN		7.4	11.1	15.4	28.6	45.6
FEMALES MEAN		7.2	10.7	15.3	29.0	45.9
74764-10-01	M	7.9	10.9	17.1	30.7	53.1
74764-10-02	M	7.0	10.1	16.1	28.2	48.5
74764-10-03	M	7.2	10.4	16.2	29.0	48.7
74764-10-04	M	6.5	9.4			
74764-10-05	M	7.3	10.0	15.6	30.2	52.6
74764-10-06	M	6.6	9.3			
74764-10-07	M	7.6	10.7			
74764-10-08	M	6.3	8.9			
74764-10-09	F	6.1	9.0	13.9	25.5	42.9
74764-10-10	F	6.8	9.3			
74764-10-11	F	6.6	9.5	14.5	26.9	46.9
74764-10-12	F	6.5	9.2			
74764-10-13	F	6.5	9.4	14.9	28.5	47.3
74764-10-14	F	6.8	9.0	14.6	28.4	49.7

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 1: 0 PPM					
-----					
74764-10-15 F	6.6	9.7			
MALES MEAN	7.1	10.0	16.3	29.5	50.7
FEMALES MEAN	6.6	9.3	14.5	27.3	46.7
74767-16-01 M	6.5	8.3			
74767-16-02 M	6.4	7.7	11.4	23.3	33.0
74767-16-03 M	6.4	9.5	13.5	26.4	39.0
74767-16-04 M	6.8	10.0	14.2	26.7	44.3
74767-16-05 M	6.5	8.5			
74767-16-06 M	6.4	9.0	13.5	25.9	36.7
74767-16-07 F	6.0	7.5	11.3	23.5	34.2
74767-16-08 F	6.1	6.5	9.3	19.7	28.8
74767-16-09 F	5.7	7.7			
74767-16-10 F	5.7	8.1			
74767-16-11 F	6.1	7.9	12.2	23.1	35.0
74767-16-12 F	6.0	7.2			
74767-16-13 F	6.2	8.9	12.5	25.0	36.3
74767-16-14 F	5.5	4.5			
74767-16-15 F	5.5	6.0			
74767-16-16 F	5.7	8.3			
MALES MEAN	6.5	8.8	13.2	25.6	38.3
FEMALES MEAN	5.9	7.3	11.3	22.8	33.6
74767-10-01 M	7.1	11.1	16.1	28.6	49.0

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74767-10-02	M	7.3	12.0	17.7	30.4	51.5
74767-10-03	M	6.8	10.2	15.3	28.6	48.8
74767-10-04	M	7.2	10.7	15.9	28.8	49.7
74767-10-05	F	6.6	10.1	15.2	27.8	47.2
74767-10-06	F	6.8	10.8			
74767-10-07	F	6.8	10.7	15.6	27.7	46.8
74767-10-08	F	7.0	11.1	16.1	28.5	48.9
74767-10-09	F	6.6	10.3			
74767-10-10	F	6.8	10.9			
74767-10-11	F	6.5	10.6	15.3	28.0	48.4
74767-10-12	F	6.2	9.6			
MALES MEAN		7.1	11.0	16.3	29.1	49.8
FEMALES MEAN		6.7	10.5	15.6	28.0	47.8
74772-09-01	M	7.3	10.2	15.0	29.7	44.2
74772-09-02	M	7.6	10.5	14.9	31.2	44.5
74772-09-03	M	7.2	10.1			
74772-09-04	M	7.5	10.7	14.7	29.6	43.9
74772-09-05	M	7.5	11.1			
74772-09-06	M	6.1	9.0	12.4	25.6	38.4
74772-09-07	F	6.9	10.1	12.1	28.2	40.3
74772-09-08	F	7.2	10.2			
74772-09-09	F	4.9	5.8	6.9	9.9	14.8
74772-09-10	F	6.4	10.1	13.5	27.3	40.2
74772-09-11	F	6.5	9.3			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74772-09-12	F	7.6	10.6	14.9	18.0	
74772-09-13	F	5.7	8.8			
MALES MEAN		7.2	10.3	14.3	29.0	42.8
FEMALES MEAN		6.5	9.3	11.9	20.9	31.8
74773-15-01	M	5.9	8.9	11.0	25.4	31.1
74773-15-02	M	6.1	9.9	13.7	20.3	39.8
74773-15-03	M	5.7	9.1	12.0	23.1	35.8
74773-15-04	M	6.2	10.1	12.7	24.2	37.1
74773-15-05	F	5.6	9.2	12.1	22.8	35.9
74773-15-06	F	5.7	9.1	11.7	21.8	34.5
MALES MEAN		6.0	9.5	12.4	23.3	36.0
FEMALES MEAN		5.7	9.2	11.9	22.3	35.2
74773-08-02	M	7.4	12.0			
74773-08-03	M	6.9	10.5	14.6	29.7	47.3
74773-08-04	M	7.4	11.8	16.4	31.9	51.4
74773-08-05	M	7.0	11.1			
74773-08-06	M	7.1	11.2	15.2	31.5	47.5
74773-08-07	M	8.2	12.2			
74773-08-08	M	7.2	11.2	15.9	31.6	60.0
74773-08-09	F	6.9	10.4	14.0	29.3	46.2
74773-08-10	F	7.1	11.3			
74773-08-11	M	6.4	9.6			

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 1: 0 PPM					
-----					
74773-08-12 F	6.4	9.8	14.4	29.5	48.9
74773-08-13 F	7.3	11.2	15.9	30.8	50.5
74773-08-14 F	6.6	10.2	14.9	30.6	49.8
74773-08-15 M	6.6	10.3			
MALES MEAN	7.1	11.1	15.5	31.2	51.6
FEMALES MEAN	6.9	10.6	14.8	30.1	48.9
74789-10-01 F	7.2	9.6			
74789-10-02 M	7.9	10.7	16.1	29.3	41.7
74789-10-03 F	7.4	10.7			
74789-10-04 M	7.0	10.1	14.9	28.2	40.7
74789-10-05 M	7.6	10.0	15.7	30.0	42.2
74789-10-06 M	7.2	9.5	14.7	28.0	40.1
74789-10-07 F	7.2	10.0			
74789-10-08 F	7.7	11.0			
74789-10-09 F	7.5	10.9	16.5	29.4	43.8
74789-10-10 F	8.0	10.6	16.1	29.4	43.9
74789-10-11 F	6.9	9.1			
74789-10-12 F	7.5	10.5	15.7	28.3	40.8
74789-10-13 F	7.0	9.7			
74789-10-14 F	7.2	9.7	15.2	27.2	39.0
MALES MEAN	7.4	10.1	15.4	28.9	41.2
FEMALES MEAN	7.4	10.2	15.9	28.6	41.9

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 SPONSOR:ACC

TABLE 227 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74789-09-01	M	8.4	10.8			
74789-09-02	M	7.7	9.9			
74789-09-03	M	7.9	10.1	15.0	29.9	48.9
74789-09-04	M	7.5	9.6	14.1	27.2	43.9
74789-09-05	M	7.8	10.2			
74789-09-06	M	7.6	10.9	15.1	30.2	48.9
74789-09-07	M	7.9	10.8			
74789-09-08	M	7.7	10.3			
74789-09-09	M	8.0	10.7			
74789-09-10	F	7.3	9.9	14.6	28.4	45.6
74789-09-11	F	7.3	10.0	14.8	28.4	45.6
74789-09-12	F	6.6	8.8	13.1	27.2	40.5
74789-09-13	F	7.4	10.2			
74789-09-14	F	7.4	10.1			
74789-09-15	F	7.0	9.3	14.1	28.1	45.5
MALES MEAN		7.8	10.4	14.7	29.1	47.2
FEMALES MEAN		7.2	9.7	14.2	28.0	44.3
74804-11-02	M	7.6	9.7	11.4	18.4	29.6
74804-11-03	M	7.3	9.2	10.5	20.1	30.8
74804-11-04	M	7.7	10.1	11.5	18.4	29.7
74804-11-05	F	7.3	9.1	9.3	17.2	27.4
74804-11-06	F	7.1	9.3	10.8	19.8	31.3
74804-11-07	F	7.2	9.1	10.1	17.5	28.8

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74804-11-08	F	7.2	9.4	11.0	19.3	29.8
MALES MEAN		7.5	9.7	11.1	19.0	30.0
FEMALES MEAN		7.2	9.2	10.3	18.5	29.3
74804-08-01	M	7.1	9.8			
74804-08-02	M	6.4	9.0	12.0	23.3	34.7
74804-08-03	M	6.9	10.1			
74804-08-04	M	7.2	10.3	13.4	26.6	41.1
74804-08-05	M	6.9	9.7			
74804-08-06	M	7.0	9.7	12.8	25.4	38.4
74804-08-07	M	7.1	10.5	13.6	25.4	39.5
74804-08-08	F	6.8	9.2			
74804-08-09	F	6.8	10.1	13.6	26.8	41.2
74804-08-10	F	6.5	9.6	12.7	25.8	43.2
74804-08-11	F	7.2	9.7			
74804-08-12	F	6.8	9.7	12.8	23.2	35.5
74804-08-13	F	6.5	9.4	12.1	23.5	36.8
74804-08-14	F	6.3	8.7			
74804-08-15	F	6.6	9.5			
MALES MEAN		6.9	9.9	13.0	25.2	38.4
FEMALES MEAN		6.7	9.5	12.8	24.8	39.2
74808-13-01	M	6.6	8.5	13.0	18.7	31.9
74808-13-02	M	6.7	9.8	14.3	20.1	34.3

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74808-13-03	M	7.5	10.7			
74808-13-05	M	7.6	10.2	15.2	21.7	37.5
74808-13-06	M	8.1	11.0	16.1	22.0	35.8
74808-13-07	F	7.2	9.8			
74808-13-08	M	7.6	10.5			
74808-13-09	M	7.4	10.4			
74808-13-10	F	7.1	10.2			
74808-13-11	F	6.5	9.2	12.7	18.2	30.4
74808-13-12	F	6.5	9.1	13.4	18.5	30.8
74808-13-13	F	7.2	10.5			
74808-13-14	F	6.7	9.3	13.8	19.8	34.7
74808-13-15	F	6.8	9.3	13.3	19.3	33.7
MALES MEAN		7.4	10.2	14.7	20.6	34.9
FEMALES MEAN		6.9	9.6	13.3	19.0	32.4
74808-11-01	M	7.0	9.7			
74808-11-02	M	6.9	9.4			
74808-11-03	M	6.5	8.8	12.0	27.0	43.3
74808-11-04	M	7.1	10.0	14.0	27.8	45.3
74808-11-05	M	6.3	8.3	11.8	24.8	40.6
74808-11-06	M	7.9	10.2	14.6	31.6	50.1
74808-11-07	F	6.2	7.9			
74808-11-08	F	6.4	8.6			
74808-11-09	F	6.6	8.4			
74808-11-10	F	6.0	7.4	9.5	21.1	34.0

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 SPONSOR:ACC

TABLE 227 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 1: 0 PPM					
-----					
74808-11-11 F	6.5	8.1			
74808-11-12 F	7.2	9.4	13.8	28.1	44.4
74808-11-13 F	5.9	7.8			
74808-11-14 F	7.0	8.4	12.6	26.0	39.9
74808-11-15 F	6.7	8.5			
74808-11-16 F	6.7	8.7	12.8	27.5	41.2
MALES MEAN	7.0	9.4	13.1	27.8	44.8
FEMALES MEAN	6.5	8.3	12.2	25.7	39.9
74810-16-01 M	7.5	11.0	15.9	29.5	50.1
74810-16-02 M	8.8	12.6			
74810-16-03 M	8.6	12.5			
74810-16-04 M	8.1	12.2	17.5	31.7	56.1
74810-16-05 M	7.9	11.9	17.3	31.1	51.6
74810-16-06 M	7.9	12.1	17.7	30.9	51.6
74810-16-07 F	6.8	10.5	16.0	28.5	49.7
74810-16-08 F	8.4	11.8			
74810-16-09 F	7.6	11.6	17.2	30.3	51.0
74810-16-10 F	7.7	11.7	16.8	29.2	50.0
74810-16-11 F	7.9	11.9	17.1	32.0	53.4
74810-16-12 F	7.4	11.2			
MALES MEAN	8.1	12.1	17.1	30.8	52.4
FEMALES MEAN	7.6	11.5	16.8	30.0	51.0

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 227 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74826-08-01	M	7.1	10.0			
74826-08-02	M	6.5	9.8	13.3	25.5	39.2
74826-08-03	M	7.0	10.5	13.7	28.0	44.8
74826-08-04	M	6.4	9.8			
74826-08-05	M	6.6	9.3			
74826-08-06	M	7.2	10.3	13.8	26.5	42.3
74826-08-07	M	6.1	8.5			
74826-08-08	M	7.3	10.3	14.1	26.8	41.6
74826-08-09	F	6.0	8.1	10.9	22.9	36.7
74826-08-10	F	6.8	9.8	13.5	26.7	43.4
74826-08-11	F	6.6	9.9	12.1	25.6	42.7
74826-08-12	F	6.8	10.1			
74826-08-13	F	6.1	8.1			
74826-08-14	F	6.7	9.8			
74826-08-15	F	6.8	10.1	14.4	29.1	47.5
MALES MEAN		6.8	9.8	13.7	26.7	42.0
FEMALES MEAN		6.5	9.4	12.7	26.1	42.6
74829-11-01	M	6.1	8.0			
74829-11-02	M	6.9	8.8	14.0	27.8	46.0
74829-11-03	M	6.2	8.8	13.9	25.8	45.6
74829-11-04	M	7.1	10.1			
74829-11-05	M	6.5	8.7	13.2	27.5	46.1
74829-11-06	M	6.9	9.0	15.0	28.5	48.8
74829-11-07	F	6.2	8.2	13.2	26.6	42.2

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74829-11-08	F	6.6	8.5	12.9	26.6	44.8
74829-11-09	F	6.1	8.5			
74829-11-10	F	7.0	9.1	14.2	29.8	48.7
74829-11-11	F	6.4	9.0			
74829-11-12	F	6.8	9.3	14.3	28.4	47.5
74829-11-13	F	6.7	8.5			
74829-11-14	F	6.6	8.3			
74829-11-15	F	6.0	7.6			
74829-11-16	F	5.9	7.8			
74829-11-17	F	6.4	8.0			
MALES MEAN		6.6	8.9	14.0	27.4	46.6
FEMALES MEAN		6.4	8.4	13.7	27.9	45.8
74840-03-01	M	10.4	15.7	20.7	33.7	54.7
74840-03-02	M	9.9	15.5	19.6	31.9	52.8
74840-03-03	M	10.0	15.9	21.3	35.6	57.0
74840-03-04	F	10.6	16.0	21.8	36.6	60.7
74840-03-05	F	9.7	15.4	20.2	34.3	48.0
74840-03-06	F	10.0	15.0	19.4	34.7	56.7
MALES MEAN		10.1	15.7	20.5	33.7	54.8
FEMALES MEAN		10.1	15.5	20.5	35.2	55.1
74841-12-01	M	6.1	8.2	12.0	22.4	31.9
74841-12-02	M	6.4	8.7	13.3	25.2	38.9

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74841-12-03	M	6.8	9.5	14.0	25.2	36.0
74841-12-04	M	6.3	8.1	11.7	22.3	33.8
74841-12-05	F	6.7	9.7	13.9	25.0	38.7
74841-12-06	F	5.7	8.2			
74841-12-07	F	6.0	8.3			
74841-12-08	F	6.2	8.6	11.8	22.8	34.6
74841-12-09	F	6.2	8.2	12.5	24.6	38.7
74841-12-10	F	6.0	8.8	12.5	23.4	36.4
74841-12-11	F	5.8	8.4			
74841-12-12	F	5.5	7.2			
74841-12-13	F	6.4	8.7			
74841-12-14	F	5.8	7.5			
MALES MEAN		6.4	8.6	12.8	23.8	35.2
FEMALES MEAN		6.0	8.4	12.7	24.0	37.1
74844-07-01	M	7.6	10.2	14.4	27.3	45.1
74844-07-02	M	7.5	10.1	14.0	26.3	43.8
74844-07-03	M	6.5	8.8			
74844-07-04	M	7.2	10.2	14.4	27.3	45.0
74844-07-05	M	7.1	10.0	13.4	25.3	42.1
74844-07-06	F	7.1	9.6			
74844-07-07	F	6.9	9.6	13.6	26.1	43.2
74844-07-08	F	6.7	8.8	12.5	23.7	39.5
74844-07-09	F	6.9	9.4			
74844-07-10	F	6.9	9.2			

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 1: 0 PPM					
-----					
74844-07-11 F	7.2	9.2			
74844-07-12 F	7.0	9.7	13.5	24.1	39.0
74844-07-13 F	6.9	9.9	13.4	25.7	41.2
MALES MEAN	7.2	9.9	14.1	26.6	44.0
FEMALES MEAN	7.0	9.4	13.3	24.9	40.7
74845-07-02 M	7.7	10.8	13.8	26.8	45.8
74845-07-03 M	7.5	10.5	14.1	28.2	48.9
74845-07-04 M	7.1	10.1	13.2	26.6	43.8
74845-07-05 M	7.5	10.3	13.9	27.1	43.5
74845-07-06 M	7.7	10.2			
74845-07-07 M	7.7	10.5			
74845-07-08 M	8.1	10.9			
74845-07-09 F	6.9	10.3	13.3	26.0	43.0
74845-07-10 F	7.3	10.0			
74845-07-11 F	6.5	9.5	11.9	24.7	39.8
74845-07-12 F	6.6	9.3	12.3	25.4	43.0
74845-07-13 F	7.7	10.7	14.3	27.5	44.8
74845-07-14 F	7.2	10.1			
MALES MEAN	7.6	10.5	13.8	27.2	45.5
FEMALES MEAN	7.0	10.0	13.0	25.9	42.7
74867-07-01 M	8.1	11.9	15.5	28.7	46.6
74867-07-02 M	8.2	11.3	15.6	29.8	47.9

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 1:		0 PPM				
74867-07-03	M	8.4	12.7	17.3	32.4	55.4
74867-07-04	F	7.1	10.0	13.5	26.8	44.5
74867-07-05	F	7.5	10.9			
74867-07-06	F	7.9	11.5	15.9	30.0	46.4
74867-07-07	F	7.2	10.7	13.9	26.7	43.0
74867-07-08	F	7.9	11.3	15.5	29.2	47.2
74867-07-09	F	7.8	11.4	15.4	31.0	48.0
MALES MEAN		8.2	12.0	16.1	30.3	50.0
FEMALES MEAN		7.6	11.0	14.8	28.7	45.8
MALES MEAN		7.3	10.4	14.6	27.3	43.9
SD		0.82	1.50	1.96	3.43	6.47
N		22	22	22	22	22
FEMALES MEAN		6.9	9.8	13.9	26.2	41.9
SD		0.87	1.59	2.18	3.89	6.64
N		22	22	22	22	22

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74742-18-01	M	7.1	10.0	12.5	23.4	32.9
74742-18-02	M	6.7	10.5			
74742-18-03	M	7.1	11.0	14.0	24.3	33.8
74742-18-04	M	7.5	11.2	14.2	25.1	35.1
74742-18-05	M	7.0	11.1	13.7	24.5	34.3
74742-18-06	M	7.1	10.7			
74742-18-07	F	6.9	9.9	13.0	23.9	34.5
74742-18-08	F	6.4	10.4			
74742-18-09	F	6.3	9.5	12.4	22.0	30.7
74742-18-10	F	5.7	8.7			
74742-18-11	F	7.0	10.7	13.7	24.7	34.9
74742-18-12	F	7.0	10.6	13.3	22.9	31.8
MALES MEAN		7.1	10.8	13.6	24.3	34.0
FEMALES MEAN		6.6	10.0	13.1	23.4	33.0
74746-10-01	M	6.3	8.7			
74746-10-02	M	6.9	9.1			
74746-10-03	M	7.0	9.4	12.2	25.5	39.1
74746-10-04	M	6.0	7.7	8.2		
74746-10-05	M	6.1	7.8			
74746-10-06	M	7.1	8.7	10.7	23.1	37.0
74746-10-07	M	6.4	8.3			
74746-10-08	M	6.7	8.7			
74746-10-09	M	6.3	8.0	10.9	23.4	37.1
74746-10-10	M	6.6	8.5			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74746-10-11	F	4.7	5.6			
74746-10-12	F	5.9	6.8			
74746-10-13	F	6.0	7.4			
74746-10-14	F	6.5	9.0			
74746-10-15	F	6.2	8.4	10.8	23.5	37.2
74746-10-16	F	6.3	8.4	9.9	22.4	31.4
74746-10-17	F	6.4	8.8	11.3	24.7	38.8
MALES MEAN		6.5	8.5	10.5	24.0	37.7
FEMALES MEAN		6.0	7.8	10.7	23.5	35.8
74753-12-01	M	7.3	7.7			
74753-12-02	M	7.6	9.1	12.6	27.3	39.5
74753-12-03	M	7.3	8.5			
74753-12-04	M	7.5	7.8			
74753-12-05	M	7.8	8.6			
74753-12-06	M	6.9	6.5	8.8	19.7	31.6
74753-12-07	M	7.7	9.0			
74753-12-08	M	7.1	8.5	11.3	22.7	33.7
74753-12-09	M	6.7	7.2	9.4	20.0	30.1
74753-12-10	M	6.3	6.1			
74753-12-11	M	7.1	8.9	12.1	26.6	39.3
74753-12-12	M	6.9	7.1			
74753-12-13	M	7.2				
74753-12-14	F	6.2	7.9	11.3	23.4	33.4
74753-12-15	F	6.7				

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74753-12-16	F	7.5	7.8	10.7	24.4	38.0
74753-12-17	F	6.3	7.3	10.2	21.4	34.2
MALES MEAN		7.2	7.9	10.8	23.3	34.8
FEMALES MEAN		6.7	7.7	10.7	23.1	35.2
74761-12-01	M	6.0	8.0	10.0	18.4	28.7
74761-12-02	M	6.6	10.2	12.2	21.8	31.9
74761-12-03	M	6.4	9.7	11.5	21.9	33.5
74761-12-04	M	6.7	9.9	11.6	19.8	27.3
74761-12-05	F	5.7	7.9	9.7	17.6	27.7
74761-12-06	F	5.6	7.7			
74761-12-07	F	5.3	7.3			
74761-12-08	F	6.3	9.2	11.1	19.1	29.0
74761-12-09	F	6.0	8.3	10.3	18.2	26.6
74761-12-10	F	4.6				
74761-12-11	F	6.2	9.2	10.8	18.2	26.8
MALES MEAN		6.4	9.5	11.3	20.5	30.4
FEMALES MEAN		5.7	8.3	10.5	18.3	27.5
74762-11-01	M	6.4	8.0	10.5	22.6	33.3
74762-11-02	M	6.2	8.3			
74762-11-03	M	5.5	6.4			
74762-11-04	M	6.3	7.3	9.9	20.9	32.5
74762-11-05	M	6.2	8.1	10.9	22.9	34.5

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74762-11-06	M	6.4	7.3	10.3	20.7	30.0
74762-11-07	F	6.2	8.1	10.7	22.5	33.0
74762-11-08	F	5.8	7.0			
74762-11-09	F	6.1	8.3			
74762-11-10	F	5.2	6.8	9.5	21.5	33.2
74762-11-11	F	6.1	7.9	11.1	21.9	32.0
74762-11-12	F	6.0	7.5	10.2	22.2	36.5
74762-11-13	F	6.5	7.9			
MALES MEAN		6.2	7.6	10.4	21.8	32.6
FEMALES MEAN		6.0	7.6	10.4	22.0	33.7
74782-09-01	M	6.9	7.7			
74782-09-02	M	6.5	7.5			
74782-09-03	M	6.6	7.7	9.2	16.5	23.0
74782-09-04	M	6.9	8.0	9.8	15.5	18.9
74782-09-05	M	6.1	7.4	8.6	14.6	18.2
74782-09-06	F	6.0	7.0	8.7	14.4	19.4
74782-09-07	F	5.8	7.0	8.8	14.8	19.8
74782-09-08	F	6.3	7.6	8.0	12.3	16.8
74782-09-09	F	6.0	7.5	9.6	15.4	22.8
74782-09-10	M	5.5	7.3	8.6	14.6	19.8
MALES MEAN		6.4	7.6	9.1	15.3	20.0
FEMALES MEAN		6.0	7.3	8.8	14.2	19.7

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74785-08-01	M	6.3	7.9	9.8	20.5	29.6
74785-08-02	M	7.3	9.2			
74785-08-03	M	6.3	7.8	9.6	20.5	29.3
74785-08-04	M	6.3	7.6			
74785-08-05	M	6.3	7.4	9.3	20.5	30.0
74785-08-06	M	6.4	7.1			
74785-08-07	M	6.8	8.2	9.8	20.7	30.5
74785-08-08	M	6.3	8.2			
74785-08-09	M	6.4	7.6			
74785-08-10	F	6.8	8.9	11.1	21.7	30.8
74785-08-11	F	6.1	7.5	9.2	18.7	27.1
74785-08-12	F	6.4	7.8	9.7	21.8	32.3
74785-08-13	F	6.2	7.8	10.3	20.1	29.9
MALES MEAN		6.5	7.9	9.6	20.6	29.9
FEMALES MEAN		6.4	8.0	10.1	20.6	30.0
74790-15-01	M	6.3	8.4	11.9	24.0	37.8
74790-15-02	M	6.4	9.4			
74790-15-03	M	6.9	9.7			
74790-15-04	M	6.0	8.5	12.3	23.9	38.3
74790-15-05	M	6.6	10.1	15.0	29.2	44.8
74790-15-06	M	6.4	8.6			
74790-15-07	M	6.4	10.0			
74790-15-08	M	6.7	9.6	14.3	28.3	43.0
74790-15-09	M	6.3	9.3			

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 227 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74790-15-10 M	6.7	9.6			
74790-15-11 M	6.4	9.1			
74790-15-12 F	4.9	5.9			
74790-15-13 F	5.9	7.6	11.9	24.8	40.6
74790-15-14 F	6.0	8.3	12.7	25.8	40.2
74790-15-15 F	6.6	9.1	14.2	30.4	44.5
74790-15-16 F	6.2	9.2	13.3	26.0	44.1
MALES MEAN	6.5	9.3	13.4	26.4	41.0
FEMALES MEAN	5.9	8.0	13.0	26.8	42.4
-----					
74790-14-01 M	7.6	11.6	15.6	27.0	38.2
74790-14-02 M	8.0	11.7			
74790-14-03 M	6.6	10.2	13.9	26.1	35.0
74790-14-04 M	7.3	10.7			
74790-14-05 M	6.8	10.2	14.4	27.4	36.3
74790-14-06 M	7.3	11.1	15.4	27.6	35.8
74790-14-07 M	6.8	10.0			
74790-14-08 F	6.8	9.9	13.3	24.4	35.0
74790-14-09 M	7.4	10.9			
74790-14-10 F	6.6	10.2	15.1	28.0	37.2
74790-14-11 F	6.1	9.0	12.8	24.1	32.8

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74790-14-12	F	6.9	10.3	13.8	26.2	38.0
MALES MEAN		7.2	10.8	14.8	27.0	36.3
FEMALES MEAN		6.6	9.9	13.8	25.7	35.8
74796-15-01	M	5.0	6.1	8.3	18.4	29.6
74796-15-02	M	5.6	7.1	9.6	22.8	34.4
74796-15-03	F	5.1	6.8	9.5	19.9	30.6
74796-15-04	M	5.1	6.2	8.6	20.1	30.3
74796-15-05	M	5.9	7.4			
74796-15-06	M	6.0	8.0			
74796-15-07	M	5.3	7.0			
74796-15-08	M	5.7	7.3	9.9	24.4	36.5
74796-15-09	M	5.8	7.2			
74796-15-10	F	5.0				
74796-15-11	F	4.5	5.2			
74796-15-12	F	5.5	6.9	9.6	22.3	33.9
74796-15-13	F	5.3	6.8			
74796-15-14	F	5.0	6.4	9.1	20.3	30.7
74796-15-15	F	5.0	5.9			
74796-15-16	F	5.4	6.5	9.5	22.5	34.5
74796-15-17	F	5.8	7.2			
MALES MEAN		5.6	7.0	9.1	21.4	32.7
FEMALES MEAN		5.2	6.5	9.4	21.3	32.4

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74798-13-01	M	6.3	8.0	11.8	25.3	38.3
74798-13-02	M	6.1	8.3	11.2	21.4	31.6
74798-13-03	M	6.6	9.5	14.9	31.9	45.9
74798-13-04	M	5.9	7.9	11.5	24.5	34.5
74798-13-05	M	5.6	7.5			
74798-13-06	M	6.0	8.1			
74798-13-07	M	6.2	8.6			
74798-13-08	M	6.5	9.2			
74798-13-09	F	5.8	8.2	11.3	21.8	33.4
74798-13-10	F	5.2	6.8	9.6	17.4	24.7
74798-13-11	F	6.3	8.5			
74798-13-12	F	5.0	6.7	8.6	16.2	24.2
74798-13-13	F	6.1	8.3			
74798-13-14	F	6.2	8.6			
74798-13-15	F	6.8	9.7	14.6	30.8	46.2
MALES MEAN		6.2	8.4	12.4	25.8	37.6
FEMALES MEAN		5.9	8.1	11.0	21.6	32.1
74798-12-01	M	7.3	10.3			
74798-12-02	M	7.4	10.3			
74798-12-03	M	7.6	10.6	15.4	29.9	43.1
74798-12-04	M	6.9	9.9	14.4	28.3	43.8
74798-12-05	M	7.2	9.6			
74798-12-06	M	6.7	10.0			
74798-12-07	M	6.6	9.2	13.8	28.9	41.1

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74798-12-08	M	8.0	11.3	14.8	29.0	39.2
74798-12-09	F	7.4	10.1	15.4	30.2	43.5
74798-12-10	F	6.6	9.4	13.4	27.2	40.1
74798-12-11	F	6.7	9.0			
74798-12-12	F	6.3	8.5			
74798-12-13	F	6.9	10.1	15.3	29.4	40.8
74798-12-14	F	6.1	8.6	12.9	26.9	37.8
MALES MEAN		7.2	10.2	14.6	29.0	41.8
FEMALES MEAN		6.7	9.3	14.3	28.4	40.6
74802-10-01	M	6.3	9.4			
74802-10-02	M	7.2	11.0			
74802-10-03	M	6.6	10.2	13.9	27.2	35.6
74802-10-04	M	7.0	9.9			
74802-10-05	M	6.7	9.8	14.0	27.8	35.0
74802-10-06	M	6.7	10.0	14.1	27.4	36.5
74802-10-07	M	6.0	8.9			
74802-10-08	M	6.3	9.5	13.6	26.0	34.5
74802-10-09	M	6.9	10.1			
74802-10-10	F	6.5	9.4	13.2	24.9	31.5
74802-10-11	F	6.6	9.5	13.4	24.4	32.3
74802-10-12	F	6.0	8.7	12.4	25.1	32.5
74802-10-13	M	6.2	9.7			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74802-10-14	F	6.7	9.8	14.2	27.5	36.3
MALES MEAN		6.6	9.9	13.9	27.1	35.4
FEMALES MEAN		6.5	9.4	13.3	25.5	33.2
74809-08-01	M	7.5	10.6			
74809-08-02	M	6.9	9.0	12.6	26.0	41.4
74809-08-03	M	5.5	6.5	7.7	16.0	28.5
74809-08-04	M	6.0	6.8	9.8	19.9	33.1
74809-08-05	M	7.0	9.1	11.8	23.1	36.6
74809-08-06	F	6.4	9.0	12.9	25.4	40.8
74809-08-07	F	6.3	8.2	11.1	23.8	35.3
74809-08-08	F	6.8	9.1			
74809-08-09	F	6.5	9.1			
74809-08-10	F	6.8	9.3	12.7	25.5	40.9
74809-08-11	F	6.9	9.0			
74809-08-12	F	6.7	9.2			
74809-08-13	F	7.5	10.2	14.1	28.4	45.4
74809-08-14	F	6.5	8.6			
MALES MEAN		6.6	8.4	10.5	21.3	34.9
FEMALES MEAN		6.7	9.1	12.7	25.8	40.6
74816-12-01	M	7.2	10.5	14.5	26.9	43.7
74816-12-02	M	7.1	9.3	12.8	23.0	36.8
74816-12-03	M	6.9	9.5	13.1	25.2	40.5

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74816-12-04	M	6.7	9.4			
74816-12-05	M	6.7	8.6			
74816-12-06	M	6.9	10.1			
74816-12-07	M	7.0	9.7			
74816-12-08	M	6.8	10.3	13.5	26.1	38.5
74816-12-09	F	6.6	9.0			
74816-12-10	F	6.0	8.5			
74816-12-11	F	6.3	8.4	12.0	20.9	32.6
74816-12-12	F	5.8	8.6			
74816-12-13	F	6.5	9.5	13.3	23.4	36.3
74816-12-14	F	6.5	9.1	12.3	23.3	35.3
74816-12-15	F	6.2	8.4			
74816-12-16	F	6.2	9.0	12.1	22.6	37.0
MALES MEAN		6.9	9.7	13.5	25.3	39.9
FEMALES MEAN		6.3	8.8	12.4	22.6	35.3
74819-10-01	M	6.3	8.9			
74819-10-02	M	6.7	9.1			
74819-10-03	M	6.9	9.7			
74819-10-04	M	7.5	10.5			
74819-10-05	M	6.9	9.9			
74819-10-06	M	6.8	10.0	14.5	27.4	45.6
74819-10-07	M	6.9	9.6	13.9	26.7	43.2
74819-10-08	M	7.0	9.1			
74819-10-09	M	7.2	9.9	14.2	28.4	46.3

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 227 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74819-10-10 M	7.0	9.5	14.1	28.1	47.2
74819-10-11 M	6.5	8.9			
74819-10-12 F	6.3	8.6	12.4	24.7	40.3
74819-10-13 F	6.8	9.4	13.6	27.1	46.5
74819-10-14 F	7.0	10.0	14.9	27.9	45.9
74819-10-15 F	6.3	9.1	13.4	27.1	44.6
74819-10-16 F	5.9	9.0			
MALES MEAN	6.9	9.6	14.2	27.7	45.6
FEMALES MEAN	6.5	9.2	13.6	26.7	44.3
74823-12-01 M	7.5	10.7	14.5	28.7	44.5
74823-12-02 M	7.6	10.3	13.6	27.9	45.0
74823-12-03 M	7.3	10.4			
74823-12-04 M	6.9				
74823-12-05 M	7.2	10.5	13.8	28.1	44.7
74823-12-06 M	7.8	11.0	14.1	28.6	44.9
74823-12-08 M	7.5	10.9			
74823-12-09 M	6.8	10.1			
74823-12-10 F	6.9	9.5	13.1	27.3	43.0
74823-12-11 F	6.5	9.6			
74823-12-12 F	6.9	9.7	12.8	26.7	41.7
74823-12-13 F	6.8	9.8	13.1	26.4	41.1
74823-12-14 F	7.1	10.6	13.7	27.9	45.6

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74823-12-15	F	6.7	9.6			
	MALES MEAN	7.3	10.6	14.0	28.3	44.8
	FEMALES MEAN	6.8	9.8	13.2	27.1	42.9
74835-07-01	M	8.3	11.8			
74835-07-03	M	7.4	11.3	15.6	28.4	41.5
74835-07-04	M	6.5	8.9	10.3	17.8	27.8
74835-07-05	M	7.5	11.2	14.8	27.3	42.1
74835-07-06	M	7.5	11.3	14.8	26.7	39.5
74835-07-07	F	7.5	11.1	15.4	24.7	35.6
74835-07-08	F	6.7	9.7	12.9	23.3	33.9
74835-07-09	F	6.6	10.4	14.2	24.4	34.2
74835-07-10	F	7.5	10.7			
74835-07-11	F	7.1	10.6			
74835-07-12	F	7.1	10.7			
74835-07-13	F	7.4	11.2	14.5	26.3	42.3
	MALES MEAN	7.4	10.9	13.9	25.1	37.7
	FEMALES MEAN	7.1	10.6	14.3	24.7	36.5
74838-11-01	M	7.3	11.6	15.6	28.0	45.6
74838-11-02	M	7.3	9.7			
74838-11-03	M	6.8	10.8	14.4	28.2	47.6
74838-11-04	M	7.2	10.9	15.3	29.8	52.2
74838-11-05	M	6.9	9.9			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74838-11-06	M	6.6	9.9	13.3	27.0	46.3
74838-11-07	M	7.1	9.3			
74838-11-08	F	7.1	10.3			
74838-11-09	F	6.6	9.9			
74838-11-10	F	5.7	8.7			
74838-11-11	F	6.7	10.3	14.1	27.8	47.1
74838-11-12	F	6.9	10.1			
74838-11-13	F	6.3	8.7			
74838-11-14	F	6.6	9.4	13.6	26.9	44.4
74838-11-15	F	6.3	9.3	12.5	24.1	40.4
74838-11-16	F	6.3	9.5			
74838-11-17	F	6.6	9.8	12.9	22.3	36.6
MALES MEAN		7.0	10.3	14.7	28.3	47.9
FEMALES MEAN		6.5	9.6	13.3	25.3	42.1
74846-07-01	M	7.1	10.1	14.1	26.7	43.7
74846-07-02	M	7.1	10.2	14.4	26.2	43.0
74846-07-03	M	7.1	10.3	14.5	26.8	47.5
74846-07-04	M	6.8	9.4	13.2	26.3	42.3
74846-07-05	F	7.1	10.6	14.7	27.2	42.2
74846-07-06	F	6.6	9.6			
74846-07-07	F	6.4	9.2			
74846-07-08	F	7.0	9.7	13.9	27.3	44.4
74846-07-09	F	7.0	10.1			
74846-07-10	F	7.8	11.2	15.5	28.9	47.5

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74846-07-11 F	6.9	10.0			
74846-07-12 F	6.7	9.9			
74846-07-13 F	7.1	10.4	14.4	28.0	45.7
MALES MEAN	7.0	10.0	14.1	26.5	44.1
FEMALES MEAN	7.0	10.1	14.6	27.9	45.0
74856-15-01 M	6.4	9.2	12.5	24.3	40.4
74856-15-02 M	6.6	9.7			
74856-15-03 M	5.7	8.0	11.0	22.5	37.1
74856-15-04 M	6.3	9.1			
74856-15-05 M	6.4	8.9	12.6	24.2	41.3
74856-15-06 F	5.8	8.5	11.9	24.5	38.9
74856-15-07 F	6.2	9.2	13.1	27.6	45.0
74856-15-08 F	5.5	8.0			
74856-15-09 F	6.4	9.3			
74856-15-10 F	5.6	8.0	11.4	25.2	41.0
74856-15-11 F	5.8	8.6	11.7	23.8	37.7
74856-15-12 F	5.5	7.6			
74856-15-13 M	6.7	9.7	13.8	27.8	44.8
MALES MEAN	6.4	9.1	12.5	24.7	40.9
FEMALES MEAN	5.8	8.5	12.0	25.3	40.7
74859-09-01 M	5.7	7.9	10.3	21.5	32.7
74859-09-02 M	5.8	7.8	9.7	20.9	31.0

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 2:		500 PPM				
74859-09-03	M	6.5	9.2			
74859-09-04	M	5.7	8.1			
74859-09-05	M	6.3	10.0			
74859-09-06	M	6.1	9.2			
74859-09-07	M	5.9	7.1	8.4	18.0	27.7
74859-09-08	M	7.0	10.3			
74859-09-09	M	6.9	8.8	9.5	21.2	31.1
74859-09-10	F	5.6	8.2			
74859-09-11	F	6.0	8.4	9.0	20.6	31.6
74859-09-12	F	5.3	7.0			
74859-09-13	F	6.2	7.8	9.7	20.1	32.5
74859-09-14	F	6.5	9.2	11.2	25.2	36.3
74859-09-15	F	6.0	7.2	9.4	21.2	28.7
MALES MEAN		6.2	8.7	9.5	20.4	30.6
FEMALES MEAN		5.9	8.0	9.8	21.8	32.3
74859-12-01	M	7.3	9.3			
74859-12-02	M	7.7	11.0	14.2	26.8	42.8
74859-12-03	M	7.4	10.0			
74859-12-04	M	7.6	10.4	12.9	24.6	38.5
74859-12-05	M	7.2	9.2	12.1	20.7	30.1
74859-12-06	M	6.6	9.1	11.7	21.6	33.5
74859-12-07	F	7.1	10.1	12.5	24.0	37.0
74859-12-08	F	6.4	9.3			
74859-12-09	F	6.6	8.3			

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 2: 500 PPM					
-----					
74859-12-10 F	6.7	9.9			
74859-12-11 F	6.7	9.1	11.7	21.6	33.3
74859-12-12 F	6.3	9.1	11.4	20.3	31.5
74859-12-13 F	6.2	8.6	11.1	21.0	31.4
MALES MEAN	7.3	9.8	12.7	23.4	36.2
FEMALES MEAN	6.6	9.2	11.7	21.7	33.3
74861-05-01 M	7.9	7.1			
74861-05-02 M	8.3	9.2	8.3		
74861-05-03 F	7.5	7.6	8.2		
74861-05-04 F	7.6	6.8			
74861-05-05 F	6.8	6.8	6.1		
MALES MEAN	8.1	8.2	8.3		
FEMALES MEAN	7.3	7.1	7.2		
74869-04-01 M	6.7	8.8	11.5	23.8	38.6
74869-04-02 M	5.9	7.4			
74869-04-03 M	6.7	9.3	12.2	24.7	40.4
74869-04-04 M	6.3	8.7			
74869-04-05 M	6.1	8.0	10.4	21.4	32.7
74869-04-06 M	6.3	8.5			
74869-04-07 M	6.3	8.4	11.6	23.9	39.9
74869-04-08 M	6.6	9.2			
74869-04-09 M	6.7	8.8	11.5	23.0	33.6

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
<hr/>					
DAMS FROM GROUP 2: 500 PPM					
<hr/>					
74869-04-10 M	5.8	8.1			
74869-04-11 M	6.3	8.4			
74869-04-12 M	5.4	7.1			
74869-04-13 M	6.2	8.1			
74869-04-14 F	6.0	8.2	11.0	23.1	35.2
74869-04-15 F	5.9	8.2	10.6	23.0	37.9
74869-04-16 F	5.8	7.6	10.1	21.3	31.0
MALES MEAN	6.3	8.4	11.4	23.4	37.0
FEMALES MEAN	5.9	8.0	10.6	22.5	34.7
<hr/>					
MALES MEAN	6.8	9.2	12.1	24.2	36.8
SD	0.53	1.14	2.06	3.26	6.08
N	25	25	25	24	24
FEMALES MEAN	6.3	8.6	11.8	23.6	35.8
SD	0.50	1.06	1.93	3.23	5.85
N	25	25	25	24	24

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74738-07-01	M	7.4	10.6	13.9	26.7	35.9
74738-07-02	M	7.5	10.6	14.2	26.4	35.6
74738-07-03	M	7.4	10.5	14.4	28.4	40.6
74738-07-04	M	7.2	10.3	14.3	28.1	39.5
74738-07-05	F	7.0	10.0			
74738-07-06	F	6.5	9.0			
74738-07-07	F	7.5	10.6	13.7	27.4	37.6
74738-07-08	F	6.9	9.5			
74738-07-09	F	6.6	8.9			
74738-07-10	F	6.7	9.4	11.9	22.4	32.3
74738-07-11	F	6.9	9.3	12.4	25.5	36.2
74738-07-12	F	6.9	8.6	10.8	22.0	31.1
74738-07-13	F	6.4	9.0			
MALES MEAN		7.4	10.5	14.2	27.4	37.9
FEMALES MEAN		6.8	9.4	12.2	24.3	34.3
74738-12-01	M	7.2	10.2	14.3	24.2	34.0
74738-12-02	M	7.0	10.2			
74738-12-03	M	6.6	9.2	13.0	25.7	38.0
74738-12-04	M	8.0	11.0	15.5	27.5	39.4
74738-12-05	M	7.3	10.6	14.6	27.1	40.2
74738-12-06	F	6.2	8.6			
74738-12-07	F	6.8	9.7			
74738-12-08	F	6.3	8.7	11.8	22.6	33.0
74738-12-09	F	6.4	8.9	12.3	22.0	32.1

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
<hr/>					
DAMS FROM GROUP 3:		1000 PPM			
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74738-12-10 F	6.9	10.0	13.8	23.7	34.5
74738-12-11 F	6.0	8.4	11.5	18.8	27.1
74738-12-12 F	6.5	9.8			
74738-12-13 F	6.3	9.2			
MALES MEAN	7.2	10.2	14.4	26.1	37.9
FEMALES MEAN	6.4	9.2	12.4	21.8	31.7
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74743-08-01 M	7.1	10.1	15.2	27.9	46.2
74743-08-02 M	7.2	10.1			
74743-08-03 M	7.1	10.1			
74743-08-04 M	7.4	10.4	15.8	28.3	49.3
74743-08-05 M	7.0	10.5			
74743-08-06 M	6.8	9.6			
74743-08-07 M	7.2	10.2			
74743-08-08 M	6.9	9.6	14.5	27.1	47.0
74743-08-09 M	6.8	10.6			
74743-08-10 M	6.4	9.7	14.8	28.2	46.6
74743-08-11 F	6.1	9.2	13.4	25.2	41.6
74743-08-12 F	5.9	8.2	12.9	24.4	40.0
74743-08-13 F	7.2	9.8	15.0	27.9	42.6
74743-08-14 F	6.9	9.4			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74743-08-15	F	7.0	9.6	14.3	27.8	45.7
MALES MEAN		7.0	10.1	15.1	27.9	47.3
FEMALES MEAN		6.6	9.2	13.9	26.3	42.5
74748-11-01	M	7.2	9.3	8.6		
74748-11-02	M	7.5	8.7	11.6	24.0	31.9
74748-11-03	M	7.6	9.3	11.8	23.0	31.5
74748-11-04	M	7.6	9.8	12.8	23.4	30.4
74748-11-05	F	6.5	8.9			
74748-11-06	F	7.1	8.8			
74748-11-07	F	5.9	7.9			
74748-11-08	F	6.7	9.0	12.3	22.7	32.1
74748-11-09	F	7.1	9.0			
74748-11-10	F	7.0	9.1			
74748-11-11	F	6.8	9.4			
74748-11-12	F	6.6	7.4			
74748-11-13	F	7.0	10.0	13.9	33.3	49.8
74748-11-14	F	6.2	7.7	10.2	21.5	29.1
74748-11-15	F	6.5	9.6	13.3	28.7	39.0
MALES MEAN		7.5	9.3	11.2	23.5	31.3
FEMALES MEAN		6.7	8.8	12.4	26.6	37.5
74752-10-01	M	7.1	10.3	15.2	28.7	46.2
74752-10-02	M	5.7	8.3			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74752-10-03	M	7.0	10.6			
74752-10-04	M	6.3	9.5			
74752-10-05	M	6.6	10.3	14.8	28.2	48.9
74752-10-06	M	7.0	9.3	15.8	29.3	47.0
74752-10-07	M	7.1	9.3	14.2	27.8	46.2
74752-10-08	M	7.2	10.8			
74752-10-09	F	5.9	8.3	12.9	25.6	41.9
74752-10-10	F	6.5	9.7	14.6	28.7	46.5
74752-10-11	F	6.0	7.9	11.6	25.0	41.1
74752-10-12	F	6.4	9.6			
74752-10-13	F	6.4	9.5			
74752-10-14	F	6.6	9.4			
74752-10-15	F	6.1	9.5			
74752-10-16	F	7.3	10.4	15.1	28.9	45.4
74752-10-17	F	6.1	9.0			
MALES MEAN		6.8	9.8	15.0	28.5	47.1
FEMALES MEAN		6.4	9.3	13.6	27.1	43.7
74780-04-01	M	6.6	9.8			
74780-04-02	M	7.1	10.0			
74780-04-03	M	6.3	9.5	12.5	23.6	33.8
74780-04-04	M	7.1	9.8	13.3	26.3	42.6
74780-04-05	M	6.3	9.6			
74780-04-06	M	5.9	9.0	11.7	23.2	35.6
74780-04-07	M	7.1	10.5	13.5	26.2	41.7

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74780-04-08	F	5.8	9.0			
74780-04-09	F	7.0	9.9	13.1	23.6	37.6
74780-04-10	F	7.2	10.1	13.3	24.9	39.8
74780-04-11	F	6.4	9.5	12.3	24.3	37.7
74780-04-12	F	6.3	9.5			
74780-04-13	F	6.2				
74780-04-14	F	6.1	9.2	12.1	24.1	38.3
MALES MEAN		6.6	9.7	12.8	24.8	38.4
FEMALES MEAN		6.4	9.5	12.7	24.2	38.4
74791-13-01	M	6.4	9.1			
74791-13-02	M	6.1	8.5	12.0	22.1	33.4
74791-13-03	M	6.3	9.3	12.6	22.9	34.0
74791-13-04	M	6.3	7.9	10.6	21.5	32.0
74791-13-05	M	6.5	8.8	12.3	22.2	33.3
74791-13-06	F	5.3	7.4	10.0	20.6	30.5
74791-13-07	F	6.0	8.4	12.5	22.4	32.4
74791-13-08	F	6.6	9.8			
74791-13-09	F	6.2	9.0			
74791-13-10	F	6.1	8.2			
74791-13-11	F	6.2	8.8	12.5	23.2	34.3

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74791-13-12	F	6.3	9.3	12.2	22.3	34.0
MALES MEAN		6.3	8.7	11.9	22.2	33.2
FEMALES MEAN		6.1	8.7	11.8	22.1	32.8
74793-14-01	M	6.9	10.4			
74793-14-02	M	7.5	10.6	15.7	29.4	41.1
74793-14-03	M	7.0	10.1			
74793-14-04	M	7.3	11.0	15.8	28.5	41.7
74793-14-05	M	7.5	10.9	16.2	28.9	40.4
74793-14-06	M	7.3	10.4			
74793-14-07	M	6.4	9.3			
74793-14-08	M	7.1	11.1	16.3	29.4	42.4
74793-14-09	F	7.0	9.9			
74793-14-10	F	6.6	9.6	14.9	27.8	40.0
74793-14-11	F	6.7	9.1	14.0	27.0	38.0
74793-14-12	F	6.8	9.9	14.3	27.7	40.7
74793-14-13	F	6.9	9.7	13.9	25.7	36.9
MALES MEAN		7.1	10.5	16.0	29.1	41.4
FEMALES MEAN		6.8	9.6	14.3	27.1	38.9
74799-14-01	M	5.7	8.5			
74799-14-02	M	5.7	8.4	12.8	24.4	37.7
74799-14-03	M	5.4	7.7			
74799-14-04	M	5.4	7.7	12.1	23.7	34.8

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74799-14-05	M	4.9	6.9	11.0	20.7	30.3
74799-14-06	M	5.4	8.1			
74799-14-07	M	4.9	7.0	10.9	20.9	28.1
74799-14-09	M	4.6				
74799-14-10	M	5.2	7.6			
74799-14-11	F	4.8	6.9	10.5	20.0	26.3
74799-14-12	F	5.4	7.7	11.9	22.1	31.3
74799-14-13	F	5.3	7.9	12.2	24.3	35.1
74799-14-15	F	5.2	7.6	11.4	23.0	33.6
MALES MEAN		5.2	7.7	11.7	22.4	32.7
FEMALES MEAN		5.2	7.5	11.5	22.4	31.6
74806-11-01	M	6.8	10.6	14.9	28.4	45.6
74806-11-02	M	6.2	9.1			
74806-11-03	M	7.1	10.8	15.0	27.8	43.8
74806-11-04	M	7.0	10.6			
74806-11-05	M	6.4	9.5	13.7	26.1	37.4
74806-11-06	M	7.1	10.5	15.1	28.1	38.3
74806-11-07	F	6.2	8.9	13.0	25.2	39.5
74806-11-08	F	6.9	10.2	14.5	27.4	42.4
74806-11-09	F	5.9	9.0	13.0	25.0	37.7
74806-11-10	F	6.3	9.1			
74806-11-11	F	6.0	8.9	12.6	25.2	37.3
74806-11-12	F	6.4	9.7			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74806-11-13	F	6.2	9.2			
	MALES MEAN	6.8	10.2	14.7	27.6	41.3
	FEMALES MEAN	6.3	9.3	13.3	25.7	39.2
74820-12-02	M	6.7	9.7	14.4	23.8	36.0
74820-12-03	M	7.1	9.8	15.5	27.0	39.1
74820-12-04	F	6.7	10.2	15.6	27.6	42.8
74820-12-05	F	5.7	8.6	13.1	23.6	34.9
74820-12-06	F	6.7	9.5			
74820-12-07	F	7.1	10.4	15.7	26.9	39.2
74820-12-08	F	6.7	9.4	14.4	25.1	36.5
74820-12-09	F	6.3	9.8			
74820-12-10	F	6.5	9.5	14.1	25.4	39.4
74820-12-11	F	7.0	10.2			
74820-12-12	F	6.8	9.8	15.3	26.3	39.4
74820-12-13	F	6.5	10.0			
	MALES MEAN	6.9	9.8	15.0	25.4	37.6
	FEMALES MEAN	6.6	9.7	14.7	25.8	38.7
74821-09-01	M	6.7	10.2	13.8	25.5	38.6
74821-09-02	M	7.3	11.2	15.6	28.4	41.6
74821-09-03	M	7.5	11.7			
74821-09-04	M	6.9	11.0	14.5	27.4	42.8
74821-09-05	M	7.4	11.9	15.8	28.8	43.6

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74821-09-06	F	7.0	10.7	14.8	27.8	43.6
74821-09-07	F	6.1	9.4			
74821-09-08	F	6.6	10.5	14.4	26.6	38.9
74821-09-09	F	4.7	7.1	9.4	18.6	25.6
74821-09-10	F	6.7	10.6			
74821-09-11	F	7.5	12.1			
74821-09-12	F	6.8	10.4	14.2	26.0	37.8
74821-09-13	F	6.3	9.7			
MALES MEAN		7.2	11.2	14.9	27.5	41.7
FEMALES MEAN		6.5	10.1	13.2	24.8	36.5
74821-07-01	M	6.7	9.3	13.0	26.2	39.2
74821-07-02	M	5.9	8.1			
74821-07-03	M	5.9	7.9			
74821-07-04	M	6.8	9.7	13.7	25.7	37.6
74821-07-05	M	6.8	10.7			
74821-07-06	M	5.6	7.1			
74821-07-07	M	6.2	9.0	12.0	25.1	35.8
74821-07-08	M	6.4	9.7			
74821-07-09	M	6.4	9.7	13.3	26.3	38.9
74821-07-10	M	6.3	8.6			
74821-07-11	F	6.0	9.2	12.4	26.2	38.6
74821-07-12	F	5.4	7.2	9.7	18.3	26.8
74821-07-13	F	5.7	8.6	12.1	23.7	35.1
74821-07-14	F	5.7	7.5	10.4	19.8	28.0

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 227 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74821-07-15	F	6.3	10.0			
74821-07-16	F	6.1	8.7			
74821-07-17	F	5.8	8.7			
MALES MEAN		6.3	9.0	13.0	25.8	37.9
FEMALES MEAN		5.9	8.6	11.2	22.0	32.1
74831-12-02	M	6.2	9.0			
74831-12-03	M	5.7	8.5	11.8	26.6	36.6
74831-12-04	M	5.4	7.8	10.9	24.7	34.3
74831-12-06	M	6.1	7.6	10.8	24.5	33.1
74831-12-07	M	6.2	8.8	11.9	26.5	35.8
74831-12-08	M	6.2	9.8			
74831-12-09	M	5.2	6.8			
74831-12-10	F	5.4	5.6	7.7	19.2	28.0
74831-12-11	F	5.7	7.9	10.7	24.2	33.5
74831-12-12	F	5.2				
74831-12-13	F	6.0	8.5			
74831-12-14	F	4.2	6.1			
74831-12-15	F	4.7	6.8			
74831-12-16	F	4.8	7.0	9.7	23.1	32.1
74831-12-17	F	5.4	7.0			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74831-12-18	F	5.5	7.1			
MALES MEAN		5.9	8.3	11.4	25.6	35.0
FEMALES MEAN		5.2	7.0	9.4	22.2	31.2
74834-07-02	M	6.9	9.9	12.8	23.3	35.4
74834-07-03	M	6.0	7.8	9.9	17.9	25.5
74834-07-04	F	7.2	10.9	13.8	24.2	35.6
74834-07-05	F	8.0	11.7	14.9	26.4	39.5
74834-07-06	F	8.2	12.2	16.0	27.8	43.8
74834-07-07	F	7.9	11.7	14.9	26.7	38.2
74834-07-08	F	6.0	8.7	11.1	18.8	25.9
74834-07-09	F	8.7	12.8	16.3	28.9	42.2
MALES MEAN		6.5	8.9	11.4	20.6	30.5
FEMALES MEAN		7.7	11.3	14.5	25.5	37.5
74847-09-01	M	6.7	9.8			
74847-09-02	M	7.0	10.1	15.0	28.1	48.1
74847-09-03	M	7.1	10.1			
74847-09-04	M	7.0	10.6	15.5	28.7	47.7
74847-09-05	M	6.9	10.3	14.9	28.2	45.6
74847-09-06	M	7.2	11.1	15.5	29.2	48.0
74847-09-07	M	7.4	11.5			
74847-09-08	F	6.4	9.6	13.7	27.4	43.8
74847-09-09	F	6.6	9.6			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74847-09-10	F	6.7	10.3	14.4	26.5	43.3
74847-09-11	F	7.1	10.6			
74847-09-12	F	6.6	9.5	13.9	26.4	38.3
74847-09-13	F	7.0	10.3	14.7	28.0	47.6
74847-09-14	F	6.7	10.2			
MALES MEAN		7.0	10.5	15.2	28.6	47.4
FEMALES MEAN		6.7	10.0	14.2	27.1	43.3
74848-04-02	M	7.0	9.0	12.9	26.2	36.5
74848-04-03	M	6.8	8.9			
74848-04-04	M	6.8	9.2	13.7	28.6	40.1
74848-04-05	M	6.5	8.7			
74848-04-06	M	6.5	8.9			
74848-04-07	M	6.3	8.2			
74848-04-08	M	6.2	8.3	12.2	26.3	36.4
74848-04-09	M	7.2	8.6	13.9	29.4	41.2
74848-04-10	M	6.9	9.6			
74848-04-11	M	6.3	8.2			
74848-04-12	F	6.8	8.9			
74848-04-13	F	6.6	8.5			
74848-04-14	F	6.6	8.4	12.5	27.3	37.5
74848-04-15	F	6.7	8.7	13.2	28.4	40.3
74848-04-16	F	6.7	8.4	12.8	26.9	37.3
74848-04-17	F	6.5	8.0	11.9	25.1	36.5

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 227 (F2)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
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DAMS FROM GROUP 3:		1000 PPM			
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74848-04-18 F	6.6	8.3			
MALES MEAN	6.7	8.8	13.2	27.6	38.6
FEMALES MEAN	6.6	8.5	12.6	26.9	37.9
74849-07-01 M	6.2	9.3	11.9	25.7	35.1
74849-07-02 M	5.6	8.0	10.3	21.3	30.2
74849-07-03 M	5.8	8.7	10.5	22.7	29.1
74849-07-04 M	6.4	9.6			
74849-07-05 M	5.8	8.0			
74849-07-06 M	5.9	7.9			
74849-07-07 M	5.1	7.1	8.4	17.9	22.5
74849-07-08 F	5.6	7.7			
74849-07-09 F	5.4	7.9			
74849-07-10 F	5.9	8.3	10.2	22.3	32.7
74849-07-11 F	5.7	8.2			
74849-07-12 F	5.5	8.0	9.3	18.6	27.1
74849-07-13 F	5.5	7.2	8.9	18.4	23.2
74849-07-14 F	4.8	6.2	7.3	14.5	21.0
MALES MEAN	5.8	8.4	10.3	21.9	29.2
FEMALES MEAN	5.5	7.6	8.9	18.5	26.0
74850-11-01 M	6.3	8.4			
74850-11-02 M	6.8	9.4	13.3	24.5	31.8
74850-11-03 M	6.3	9.3	13.1	24.6	34.3

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74850-11-04	M	7.4	10.3			
74850-11-05	M	6.8	9.5	13.3	24.2	33.3
74850-11-06	M	5.6	7.5	10.3	20.9	27.9
74850-11-07	M	6.9	10.1			
74850-11-08	M	7.5	10.4			
74850-11-09	M	7.0	10.0			
74850-11-10	F	6.0	8.3	11.9	22.5	30.5
74850-11-11	F	7.1	9.6	13.7	25.4	36.4
74850-11-12	F	6.1	8.6	12.6	24.5	33.7
74850-11-13	F	6.6	9.2	13.5	24.8	38.2
MALES MEAN		6.7	9.4	12.5	23.6	31.8
FEMALES MEAN		6.5	8.9	12.9	24.3	34.7
74850-14-01	M	8.7	12.1	17.0	30.4	40.6
74850-14-02	M	8.1	11.3			
74850-14-03	M	8.0	11.0	14.4	27.1	35.8
74850-14-04	M	8.9	12.6			
74850-14-05	M	7.9	11.7	15.2	27.3	37.8
74850-14-06	M	9.3	12.7	16.9	29.8	39.7
74850-14-07	F	7.7	11.0	14.8	28.9	38.4
74850-14-08	F	8.4	11.2			
74850-14-09	F	8.4	11.4			
74850-14-10	F	6.9	10.4	14.4	26.2	35.3
74850-14-11	F	7.5	11.0	15.1	28.4	36.2

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74850-14-12	F	7.5	10.2	13.9	26.4	36.6
MALES MEAN		8.5	11.9	15.9	28.7	38.5
FEMALES MEAN		7.7	10.9	14.6	27.5	36.6
74855-11-02	M	7.0	10.9	13.8	22.5	34.3
74855-11-03	M	6.8	10.4			
74855-11-04	M	6.9	10.9	13.7	21.9	33.6
74855-11-05	M	6.8	10.1	13.6	22.4	35.3
74855-11-06	F	6.4	10.2			
74855-11-07	F	6.5	9.9			
74855-11-08	F	7.0	11.5	15.4	24.3	38.3
74855-11-09	F	6.5	10.6	14.0	23.7	36.2
74855-11-10	F	6.2	9.9	12.9	22.6	36.4
74855-11-11	F	6.5	10.7			
74855-11-12	F	6.2	10.4	13.6	22.9	36.3
74855-11-13	M	6.7	10.6	13.3	23.1	34.1
MALES MEAN		6.8	10.6	13.6	22.5	34.3
FEMALES MEAN		6.5	10.5	14.0	23.4	36.8
74868-20-01	F	6.1	7.1	7.8	15.4	22.4
74868-20-02	M	6.1	7.4	9.0	18.6	28.3
74868-20-03	M	6.5	7.9			
74868-20-04	M	5.8	7.1	8.8	18.7	27.7
74868-20-05	M	6.1	7.5	9.1	18.3	28.7

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 3:		1000 PPM				
74868-20-06	M	6.6	8.3	9.9	19.7	29.4
74868-20-07	F	6.5	8.1			
74868-20-08	F	6.0	7.2	8.4	17.4	27.7
74868-20-09	F	5.8	6.3			
74868-20-10	F	6.2	7.9			
74868-20-11	F	5.8	7.2	8.8	18.0	28.5
74868-20-12	F	6.1	7.3	8.8	16.2	25.8
MALES MEAN		6.2	7.6	9.2	18.8	28.5
FEMALES MEAN		6.1	7.3	8.5	16.8	26.1
74871-09-01	M	7.4	10.1	15.3	25.3	44.1
74871-09-02	M	7.9	10.0	15.1	24.0	42.3
74871-09-03	M	6.9	7.7			
74871-09-04	M	7.4	9.4	13.5	23.8	41.1
74871-09-05	M	6.5	9.1	13.6	23.3	40.2
74871-09-06	M	7.1	8.8			
74871-09-07	M	6.6	8.2			
74871-09-08	M	7.1	9.5			
74871-09-09	F	6.6	8.0	11.1	18.8	33.5
74871-09-10	F	6.7	7.8			
74871-09-11	F	6.3	8.4	13.1	21.8	37.6
74871-09-12	F	6.6	9.0	13.8	22.3	
74871-09-13	F	5.8	8.0	10.9	19.6	33.9

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 227 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OFFSPRING WEIGHTS [G]

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 3: 1000 PPM					
-----					
74871-09-14 F	6.4	8.5			
MALES MEAN	7.1	9.1	14.4	24.1	41.9
FEMALES MEAN	6.4	8.3	12.2	20.6	35.0
MALES MEAN	6.8	9.6	13.3	25.2	37.5
SD	0.66	1.08	1.88	2.89	5.58
N	23	23	23	23	23
FEMALES MEAN	6.4	9.1	12.6	24.0	35.8
SD	0.61	1.10	1.76	2.88	4.69
N	23	23	23	23	23

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74751-13-01	M	6.7	7.4			
74751-13-02	M	7.7	10.6			
74751-13-03	M	7.2	10.6			
74751-13-04	M	6.7	9.0			
74751-13-05	M	7.3	9.8			
74751-13-06	M	7.0	9.2	12.8	22.9	33.2
74751-13-07	M	7.1	9.7	13.6	24.9	35.3
74751-13-08	M	6.0	8.3	11.5	21.3	30.8
74751-13-09	F	6.7	8.8			
74751-13-10	F	6.2	8.6	12.0	22.7	33.8
74751-13-11	F	6.9	10.1	14.1	25.3	37.9
74751-13-12	F	6.0	8.2			
74751-13-13	F	6.5	9.0	12.9	23.7	35.1
74751-13-14	F	7.0	9.6	13.6	24.7	35.6
74751-13-15	F	6.6	8.7			
MALES MEAN		7.0	9.3	12.6	23.0	33.1
FEMALES MEAN		6.6	9.0	13.2	24.1	35.6
74754-15-01	M	6.9	10.0	14.3	25.1	40.4
74754-15-02	M	7.4	10.8			
74754-15-03	M	6.7	10.0			
74754-15-04	M	7.5	10.7	14.8	25.9	43.9
74754-15-05	M	7.4	11.1	15.1	25.5	41.1
74754-15-06	M	7.1	10.4	15.2	24.5	41.5
74754-15-07	M	7.5	11.2			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74754-15-08	F	6.1	9.2	12.8	24.2	38.5
74754-15-09	F	6.5	9.3			
74754-15-10	F	6.6	9.7	13.8	24.9	41.7
74754-15-11	F	7.4	10.9			
74754-15-12	F	6.5	9.9	14.2	24.0	41.7
74754-15-13	F	7.2	10.8	15.6	24.9	40.8
74754-15-14	F	6.5	9.9			
74754-15-15	F	7.0	9.8			
MALES MEAN		7.2	10.6	14.9	25.3	41.7
FEMALES MEAN		6.7	9.9	14.1	24.5	40.7
74768-11-01	M	5.7	7.9	11.0	22.9	34.9
74768-11-02	M	6.5	8.1	11.4	22.2	33.7
74768-11-03	M	6.8	9.3			
74768-11-04	M	7.0	10.6			
74768-11-05	M	6.8	10.2			
74768-11-06	M	6.7	8.8	7.9		
74768-11-07	M	6.0	8.5	11.7	22.9	33.0
74768-11-08	M	6.8	9.2			
74768-11-09	F	6.0	8.2	10.8	22.1	33.4
74768-11-10	F	5.9	8.2			
74768-11-11	F	5.8	7.3	9.9	20.2	31.2
74768-11-12	F	6.4	9.2			
74768-11-13	F	6.7	9.4	12.5	25.4	40.5
74768-11-14	F	6.6	8.3			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74768-11-15	F	6.1	8.3			
74768-11-16	F	6.4	7.9			
74768-11-17	F	6.6	9.1	13.5	25.3	39.6
MALES MEAN		6.5	9.1	10.5	22.7	33.9
FEMALES MEAN		6.3	8.4	11.7	23.3	36.2
74769-08-03	M	8.4	12.9	16.6	29.5	41.7
74769-08-04	M	7.7	11.0	14.8	26.6	37.6
74769-08-05	M	8.2	12.3	16.3	30.0	44.3
74769-08-06	M	7.6	11.2	14.8	27.5	41.2
74769-08-07	M	8.2	11.5			
74769-08-08	F	6.9	10.6	13.8	24.9	35.1
74769-08-09	F	6.8	10.3	13.2	24.3	36.7
74769-08-10	F	7.5	11.3	14.9	28.1	40.4
74769-08-11	F	6.8	9.5	12.4	22.7	32.7
MALES MEAN		8.0	11.8	15.6	28.4	41.2
FEMALES MEAN		7.0	10.4	13.6	25.0	36.2
74770-11-01	M	6.5	9.9			
74770-11-02	M	7.0	10.6	16.0	29.6	43.5
74770-11-03	M	6.0	8.4			
74770-11-04	M	7.8	10.8	16.4	29.6	40.5
74770-11-05	M	7.6	11.2	16.5	30.8	44.6
74770-11-06	M	8.0	11.1			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74770-11-07	M	7.3	10.4	16.3	31.2	45.8
74770-11-08	F	7.4	10.4	15.0	26.6	36.5
74770-11-09	F	6.5	9.0	13.6	26.2	35.7
74770-11-10	F	6.7	9.5			
74770-11-11	F	7.4	10.0			
74770-11-12	F	7.2	10.4	16.1	28.5	38.8
74770-11-13	F	7.1	9.6			
74770-11-14	F	6.8	10.0			
74770-11-15	F	7.1	10.1	16.0	29.7	42.5
MALES MEAN		7.2	10.3	16.3	30.3	43.6
FEMALES MEAN		7.0	9.9	15.2	27.8	38.4
74770-10-01	M	8.3	11.6	18.6	35.3	55.2
74770-10-02	M	8.1	11.9			
74770-10-03	M	7.4	10.6	16.4	33.6	52.6
74770-10-04	M	7.6	11.7			
74770-10-05	M	7.6	10.3	17.6	34.1	51.2
74770-10-06	M	7.8	11.4	17.5	34.1	52.4
74770-10-07	M	8.1	11.4			
74770-10-08	M	7.0	10.4			
74770-10-09	M	6.6	9.6			
74770-10-10	M	7.9	11.6			
74770-10-11	M	8.0	11.9			
74770-10-12	F	7.8	12.0	18.7	36.8	55.9
74770-10-13	F	7.3	10.8	17.2	33.3	53.7

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
<hr/>					
DAMS FROM GROUP 4:		2500 PPM			
<hr/>					
74770-10-14 F	6.6	9.0	15.2	30.8	45.2
74770-10-15 F	7.4	11.3			
74770-10-16 F	7.8	11.3	16.8	32.1	49.9
MALES MEAN	7.7	11.1	17.5	34.3	52.9
FEMALES MEAN	7.4	10.9	17.0	33.3	51.2
<hr/>					
74786-10-01 M	6.9	10.0			
74786-10-02 M	7.3	9.2			
74786-10-03 M	7.9	10.6	14.8	26.4	39.2
74786-10-04 M	6.4	9.1			
74786-10-05 M	7.5	9.8			
74786-10-06 M	7.9	10.6			
74786-10-07 M	6.7	8.7			
74786-10-08 M	7.4	9.7	13.4	25.4	38.1
74786-10-09 M	7.7	10.8	15.1	26.6	40.5
74786-10-10 M	6.2	8.7	12.5	24.1	36.6
74786-10-11 M	7.3	10.0			
74786-10-12 F	7.0	9.7	14.1	26.0	39.3
74786-10-13 F	6.4	8.7			
74786-10-14 F	6.0	7.8			
74786-10-15 F	6.2	7.9	11.7	23.2	34.7
74786-10-16 F	7.0	9.8			
74786-10-17 F	6.7	9.4	13.6	24.8	35.9

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
<hr/>					
DAMS FROM GROUP 4: 2500 PPM					
<hr/>					
74786-10-18 F	7.6	10.0	13.8	25.1	38.2
MALES MEAN	7.2	9.7	14.0	25.6	38.6
FEMALES MEAN	6.7	9.0	13.3	24.8	37.0
74792-12-01 M	6.6	10.3	13.7	24.1	41.0
74792-12-02 M	6.9	10.4			
74792-12-03 M	6.1	8.6			
74792-12-04 M	6.3	9.5	13.4	23.5	36.6
74792-12-05 M	6.6	10.7	13.9	25.1	41.3
74792-12-06 M	5.9	8.4			
74792-12-07 M	7.0	10.7	14.8	25.9	41.5
74792-12-08 F	6.2	10.0	13.5	24.0	40.8
74792-12-09 F	6.7	9.8			
74792-12-10 F	6.2	9.7			
74792-12-11 F	5.8	8.6			
74792-12-12 F	5.9	8.6	12.1	22.0	36.7
74792-12-13 F	6.1	9.6	13.0	23.4	37.8
74792-12-14 F	5.7	8.0	11.6	22.1	37.2
MALES MEAN	6.5	9.8	14.0	24.7	40.1
FEMALES MEAN	6.1	9.2	12.6	22.9	38.1
74807-08-02 M	6.5	7.6			
74807-08-03 M	6.9	9.2			
74807-08-04 M	6.2	8.3			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74807-08-05	M	5.8	7.8	10.7	20.7	27.1
74807-08-06	M	6.5	9.0	13.3	26.1	33.1
74807-08-07	M	6.9	9.1	13.5	25.9	33.6
74807-08-08	M	6.9	9.1			
74807-08-09	M	6.8	9.1	12.5	24.1	31.1
74807-08-10	F	6.4	8.5			
74807-08-11	F	6.7	8.9	12.9	25.0	32.9
74807-08-12	F	6.6	8.4	12.0	22.9	29.2
74807-08-13	F	6.1	8.2			
74807-08-14	F	6.4	7.9	11.5	20.7	27.0
74807-08-15	F	6.6	8.5	11.7	21.5	29.3
74807-08-16	F	6.3	8.4			
MALES MEAN		6.6	8.7	12.5	24.2	31.2
FEMALES MEAN		6.4	8.4	12.0	22.5	29.6
74811-13-01	M	7.1	11.1			
74811-13-02	M	7.1	10.7	14.4	25.3	39.3
74811-13-03	M	7.4	11.3	15.0	25.9	40.8
74811-13-04	M	7.2	10.6	14.4	24.9	37.2
74811-13-05	M	7.4	10.9			
74811-13-06	M	7.2	11.2	14.4	26.0	38.3
74811-13-07	F	7.4	11.5	14.9	25.5	39.1
74811-13-08	F	7.0	9.9	13.1	24.8	38.8
74811-13-09	F	7.0	9.7	12.7	23.1	35.0

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74811-13-10	F	7.1	10.0	13.1	24.2	38.1
MALES MEAN		7.2	11.0	14.6	25.5	38.9
FEMALES MEAN		7.1	10.3	13.5	24.4	37.8
74817-13-01	M	6.1	9.0			
74817-13-02	M	6.6	9.0			
74817-13-03	M	5.7	8.0	11.1	22.3	35.1
74817-13-04	M	7.2	10.2	13.0	26.1	43.0
74817-13-05	M	7.1	10.9	15.0	30.1	48.1
74817-13-06	M	6.7	10.1	13.6	22.8	38.1
74817-13-07	F	7.1	10.5			
74817-13-08	F	6.1	8.6	11.6	19.8	33.0
74817-13-09	F	6.2	9.0	12.2	23.6	38.9
74817-13-10	F	6.6	8.5			
74817-13-11	F	6.2	8.4			
74817-13-12	F	6.5	8.7	11.2	22.3	36.1
74817-13-13	F	6.6	9.9			
74817-13-14	F	6.2	8.3			
74817-13-15	F	6.0	7.4	10.0	19.9	33.7
74817-13-16	F	6.5	9.0			
MALES MEAN		6.6	9.5	13.2	25.3	41.1
FEMALES MEAN		6.4	8.8	11.3	21.4	35.4
74822-08-01	M	7.6	10.0	13.2	24.6	37.1

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74822-08-02	M	7.6	11.2	14.1	25.2	37.2
74822-08-03	M	7.5	9.7			
74822-08-04	M	7.4	9.4	12.8	22.4	35.6
74822-08-05	M	7.7	10.4	13.0	23.7	37.8
74822-08-06	F	7.3	9.7	13.4	26.2	38.7
74822-08-07	F	8.2	10.8	14.3	27.8	39.3
74822-08-08	F	7.8	10.8	13.9	24.4	35.0
74822-08-09	F	7.2	10.8			
74822-08-10	F	6.9	9.5	13.5	24.8	36.8
74822-08-11	F	6.7	9.5			
74822-08-12	M	6.8	9.6			
74822-08-13	F	7.5	10.8			
74822-08-14	F	6.8	9.5			
MALES MEAN		7.4	10.1	13.3	24.0	36.9
FEMALES MEAN		7.3	10.2	13.8	25.8	37.5
74827-11-01	M	7.0	10.4	13.4	24.5	34.6
74827-11-02	M	7.2	9.5			
74827-11-03	M	7.3	9.7	13.4	25.8	34.5
74827-11-04	M	7.1	10.7			
74827-11-05	M	6.8	10.5	13.4	27.1	38.4
74827-11-06	M	7.0	8.7	11.6	21.6	32.3
74827-11-07	F	6.8	10.1	13.6	25.4	35.1
74827-11-08	F	3.2	2.9			
74827-11-09	F	6.8	9.6			

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74827-11-10 F	7.0	9.9	13.2	23.5	31.6
74827-11-11 F	6.3	8.8	11.8	21.0	27.8
MALES MEAN	7.1	9.9	13.0	24.8	35.0
FEMALES MEAN	6.0	8.3	12.9	23.3	31.5
74832-07-01 M	7.2	9.7			
74832-07-02 M	7.2	9.7			
74832-07-03 M	6.7	9.0	11.7	20.6	31.0
74832-07-04 M	6.6	9.3			
74832-07-05 M	7.2	9.7			
74832-07-06 M	7.0	10.1	13.6	23.5	31.0
74832-07-07 M	6.8	9.6			
74832-07-08 M	6.9	9.2	12.2	21.3	32.7
74832-07-09 F	7.1	9.8	13.1	23.4	33.2
74832-07-10 F	6.7	8.8	11.8	20.1	28.3
74832-07-11 F	6.5	9.0			
74832-07-12 F	6.9	9.6	12.3	21.4	32.5
74832-07-13 F	6.9	8.8	12.1	20.6	29.6
74832-07-14 M	7.2	9.8	12.8	22.1	32.3
MALES MEAN	7.0	9.6	12.6	21.9	31.8
FEMALES MEAN	6.8	9.2	12.3	21.4	30.9
74833-11-02 M	6.7	10.3			
74833-11-03 M	5.5	8.0			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
-----						
DAMS FROM GROUP 4:		2500 PPM				
-----						
74833-11-04	M	6.9	11.1	16.0	27.3	40.8
74833-11-05	M	7.3	11.3	15.3	26.8	40.5
74833-11-06	M	6.5	10.8			
74833-11-07	M	6.4	10.5	15.0	25.9	39.2
74833-11-08	M	6.5	10.3	14.7	26.1	40.0
74833-11-09	F	6.5	10.2	15.4	27.1	40.2
74833-11-10	F	5.6	8.7			
74833-11-11	F	6.5	10.4	15.8	27.0	38.0
74833-11-12	F	6.1	9.5	13.9	24.1	36.0
74833-11-13	F	6.2	10.1			
74833-11-14	F	5.9	9.0	13.5	24.9	36.5
MALES MEAN		6.5	10.3	15.3	26.5	40.1
FEMALES MEAN		6.1	9.7	14.7	25.8	37.7
74836-12-02	F	5.6	7.5			
74836-12-03	M	6.9	9.8	13.7	26.5	41.3
74836-12-04	M	6.7	9.4			
74836-12-05	M	6.3	9.4	13.2	25.4	39.1
74836-12-06	M	7.6	10.7	15.4	27.3	42.8
74836-12-07	M	7.4	9.6	13.7	26.8	43.3
74836-12-08	F	6.2	8.8	12.5	25.1	39.2
74836-12-09	F	6.3	8.6			
74836-12-10	F	6.2	9.2			
74836-12-11	F	5.8	7.5	10.5	21.7	34.0
74836-12-12	F	6.5	9.2			

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74836-12-14	F	6.3	9.0	12.7	23.0	39.2
74836-12-15	F	6.3	8.8	13.2	24.3	38.2
MALES MEAN		7.0	9.8	14.0	26.5	41.6
FEMALES MEAN		6.2	8.6	12.2	23.5	37.7
74836-11-01	M	7.3	9.9			
74836-11-02	M	7.2	10.0			
74836-11-03	M	7.3	10.7			
74836-11-04	M	7.3	11.0	15.0	26.8	42.5
74836-11-05	M	7.2	10.5			
74836-11-06	M	8.0	11.4	15.4	26.7	41.4
74836-11-07	M	7.9	11.2			
74836-11-08	M	8.1	11.2	15.0	26.1	41.5
74836-11-09	M	8.0	10.9			
74836-11-10	M	7.3	10.9	14.0	25.8	40.4
74836-11-11	F	7.0	10.3			
74836-11-12	F	7.1	10.1	14.0	25.9	38.9
74836-11-13	F	6.0	8.4			
74836-11-14	F	6.6	9.5	12.2	23.8	37.4
74836-11-15	F	7.1	10.3	13.7	26.1	41.2
74836-11-16	F	7.0	9.2	12.8	25.0	40.8
MALES MEAN		7.6	10.8	14.9	26.4	41.5
FEMALES MEAN		6.8	9.6	13.2	25.2	39.6

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74853-11-01	M	6.1	8.8			
74853-11-02	M	6.9	9.9			
74853-11-03	M	5.5	8.3			
74853-11-04	M	6.3	9.7	14.1	21.1	27.8
74853-11-05	M	6.5	10.0	14.2	22.3	27.8
74853-11-06	M	6.7	10.8	13.7	21.6	29.3
74853-11-07	M	5.7	8.9	12.6	19.9	24.7
74853-11-08	M	5.9	9.4			
74853-11-09	F	6.1	9.4			
74853-11-10	F	6.5	10.3			
74853-11-11	F	5.9	9.3			
74853-11-12	F	6.4	10.2	14.3	21.8	29.3
74853-11-13	F	5.7	8.6			
74853-11-14	F	5.5	9.2	13.1	20.0	26.6
74853-11-15	F	5.8	8.3			
74853-11-16	F	5.8	9.1	14.1	19.9	25.6
74853-11-17	F	5.8	8.5	12.8	20.5	27.9
MALES MEAN		6.2	9.5	13.7	21.2	27.4
FEMALES MEAN		5.9	9.2	13.6	20.6	27.4
74853-12-01	M	9.3	14.1	17.0	27.0	40.6
74853-12-02	M	9.2	14.1	17.1	26.8	40.3
74853-12-03	M	8.7	13.3	16.4	26.2	40.0
74853-12-04	M	8.4	13.5	16.2	25.5	37.5
74853-12-05	F	8.6	13.4	15.6	26.3	35.3

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
-----					
DAMS FROM GROUP 4: 2500 PPM					
-----					
74853-12-06 F	8.6	13.1	16.3	26.2	38.9
74853-12-07 F	8.8	13.3	16.1	26.0	37.1
74853-12-08 F	8.5	13.2	15.8	25.8	37.2
MALES MEAN	8.9	13.8	16.7	26.4	39.6
FEMALES MEAN	8.6	13.3	16.0	26.1	37.1
74857-09-01 M	7.2	10.3	14.9	26.9	44.8
74857-09-02 M	6.8	9.5	13.3	24.5	37.3
74857-09-03 M	7.1	10.1			
74857-09-04 M	7.5	10.9			
74857-09-05 M	7.4	10.5	15.0	26.2	42.1
74857-09-06 M	8.0	12.3	17.7	30.4	47.2
74857-09-07 M	7.1	9.2			
74857-09-08 F	7.3	10.7	15.3	27.7	44.3
74857-09-09 F	6.3	9.2	12.0	21.2	32.9
74857-09-10 F	6.6	9.6	13.5	24.7	42.0
74857-09-11 F	6.4	9.4	12.3	24.2	37.4
74857-09-12 M	7.2	10.2			
MALES MEAN	7.3	10.4	15.2	27.0	42.9
FEMALES MEAN	6.7	9.7	13.3	24.5	39.2
74860-08-01 M	6.0	10.0	14.0	25.2	38.1
74860-08-02 M	6.3	10.0			
74860-08-03 M	6.1	9.9	13.8	24.8	36.6

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74860-08-04	M	6.3	9.9	14.1	25.3	36.3
74860-08-05	M	5.9	8.7	12.8	22.9	36.1
74860-08-06	F	5.9	8.9	12.5	22.2	32.3
74860-08-07	F	5.9	9.3			
74860-08-08	F	5.7	8.6	12.4	22.4	34.6
74860-08-09	F	6.2	9.5			
74860-08-10	F	5.5	8.3			
74860-08-12	F	6.0	9.3	13.4	24.5	36.0
74860-08-13	F	5.7	9.2	13.2	23.3	33.9
MALES MEAN		6.1	9.7	13.7	24.6	36.8
FEMALES MEAN		5.8	9.0	12.9	23.1	34.2
74862-13-02	M	7.4	10.8	15.7	31.0	51.3
74862-13-03	M	7.1	10.9	16.0	31.4	50.2
74862-13-04	M	7.3	10.2			
74862-13-05	M	7.2	10.3			
74862-13-06	M	6.8	9.7			
74862-13-07	M	7.7	11.4	17.6	33.0	54.8
74862-13-08	M	7.7	11.2	17.0	32.1	53.6
74862-13-09	F	7.1	11.0			
74862-13-10	F	6.8	10.1	13.9	28.2	46.2
74862-13-11	F	6.2	9.0	14.1	28.5	47.3
74862-13-12	F	6.0	8.0			
74862-13-13	F	7.0	10.5	14.7	28.7	48.4

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PUP NUMBER SEX	POSTNATAL DAY				
	1	4	7	14	21
<hr/>					
DAMS FROM GROUP 4: 2500 PPM					
<hr/>					
74862-13-14 F	6.3	8.9	13.3	26.5	43.3
MALES MEAN	7.3	10.6	16.6	31.9	52.5
FEMALES MEAN	6.6	9.6	14.0	28.0	46.3
74866-16-01 M	5.9	9.3	14.7	26.1	40.7
74866-16-02 M	6.1	9.6			
74866-16-03 M	5.7	9.2			
74866-16-04 M	5.7	9.5			
74866-16-05 M	6.3	10.5	17.4	27.8	42.6
74866-16-06 M	5.9	9.7			
74866-16-07 M	6.4	11.0	16.5	27.5	43.7
74866-16-08 M	5.4	8.7	12.9	22.3	33.6
74866-16-09 F	5.0	7.5			
74866-16-10 F	5.8	9.9	16.1	25.5	39.9
74866-16-11 F	5.4	8.7	13.5	23.6	33.8
74866-16-12 F	6.1	9.2	14.6	24.7	36.7
74866-16-13 F	5.2	8.4	13.6	23.6	36.2
MALES MEAN	5.9	9.7	15.4	25.9	40.2
FEMALES MEAN	5.5	8.7	14.5	24.4	36.7
74870-03-01 M	7.3	10.7			
74870-03-02 M	7.1	11.1			
74870-03-03 M	8.1	12.6	17.0	27.9	39.8
74870-03-04 M	7.4	11.7	15.7	27.8	41.8

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PUP NUMBER	SEX	POSTNATAL DAY				
		1	4	7	14	21
DAMS FROM GROUP 4:		2500 PPM				
74870-03-05	M	6.8	10.7	14.6	25.6	38.6
74870-03-06	M	7.3	11.4			
74870-03-07	M	7.3	10.7	14.4	24.4	33.2
74870-03-08	F	6.6	10.2			
74870-03-09	F	6.6	9.9	13.5	23.8	37.0
74870-03-10	F	7.4	11.3	15.4	27.0	42.5
74870-03-11	F	7.4	10.8			
74870-03-12	F	7.4	11.5			
74870-03-13	F	7.2	10.6			
74870-03-14	F	6.9	10.8	15.0	25.3	38.4
74870-03-15	F	6.4	10.2			
74870-03-16	F	7.0	11.2	15.3	26.3	40.4
MALES MEAN		7.3	11.3	15.4	26.4	38.4
FEMALES MEAN		7.0	10.7	14.8	25.6	39.6
MALES MEAN		7.1	10.3	14.4	26.0	39.2
SD		0.65	1.05	1.62	2.97	5.82
N		24	24	24	24	24
FEMALES MEAN		6.6	9.6	13.6	24.6	37.2
SD		0.64	1.08	1.34	2.60	4.90
N		24	24	24	24	24

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74737-10-01	M	2.1	5.5	13.7	18.5
74737-10-02	M	2.1			
74737-10-03	M	1.4	3.9	12.5	16.5
74737-10-04	M	2.9	5.3	13.9	16.7
74737-10-05	M	1.9	3.9	11.8	14.9
74737-10-06	F	2.7			
74737-10-07	F	2.4	4.3	13.0	16.7
74737-10-08	F	2.2	5.2	13.2	17.0
74737-10-09	F	2.1	5.3	13.2	17.3
74737-10-10	F	2.8			
74737-10-11	F	0.9			
74737-10-12	F	1.5			
74737-10-13	F	3.8	5.0	13.5	16.9
74737-10-14	F	2.0			
74737-10-15	F	1.9			
MALES MEAN		2.1	4.7	13.0	16.7
FEMALES MEAN		2.2	5.0	13.2	17.0
74759-09-01	M	3.9	4.3	13.7	17.3
74759-09-02	M	3.2			
74759-09-03	M	4.3			
74759-09-04	M	3.3	4.1	11.5	17.3
74759-09-05	M	3.8	4.5	13.7	16.7
74759-09-06	M	3.7			
74759-09-07	M	3.9			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74759-09-08	M	3.8	4.3	14.0	16.7
74759-09-09	M	3.7			
74759-09-10	F	3.9	4.6	14.0	16.5
74759-09-11	F	3.4	4.5	12.6	14.5
74759-09-12	F	3.4	4.9	14.5	19.4
74759-09-13	F	3.3	4.4	13.8	17.2
MALES MEAN		3.7	4.3	13.2	17.0
FEMALES MEAN		3.5	4.6	13.7	16.9
74764-10-01	M	3.0	6.2	13.6	22.4
74764-10-02	M	3.1	6.0	12.1	20.3
74764-10-03	M	3.2	5.8	12.8	19.7
74764-10-04	M	2.9			
74764-10-05	M	2.7	5.6	14.6	22.4
74764-10-06	M	2.7			
74764-10-07	M	3.1			
74764-10-08	M	2.6			
74764-10-09	F	2.9	4.9	11.6	17.4
74764-10-10	F	2.5			
74764-10-11	F	2.9	5.0	12.4	20.0
74764-10-12	F	2.7			
74764-10-13	F	2.9	5.5	13.6	18.8
74764-10-14	F	2.2	5.6	13.8	21.3

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74764-10-15	F	3.1			
	MALES MEAN	2.9	5.9	13.3	21.2
	FEMALES MEAN	2.7	5.3	12.9	19.4
74767-16-01	M	1.8			
74767-16-02	M	1.3	3.7	11.9	9.7
74767-16-03	M	3.1	4.0	12.9	12.6
74767-16-04	M	3.2	4.2	12.5	17.6
74767-16-05	M	2.0			
74767-16-06	M	2.6	4.5	12.4	10.8
74767-16-07	F	1.5	3.8	12.2	10.7
74767-16-08	F	0.4	2.8	10.4	9.1
74767-16-09	F	2.0			
74767-16-10	F	2.4			
74767-16-11	F	1.8	4.3	10.9	11.9
74767-16-12	F	1.2			
74767-16-13	F	2.7	3.6	12.5	11.3
74767-16-14	F	-1.0			
74767-16-15	F	0.5			
74767-16-16	F	2.6			
	MALES MEAN	2.3	4.1	12.4	12.7
	FEMALES MEAN	1.4	3.6	11.5	10.8
74767-10-01	M	4.0	5.0	12.5	20.4

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74767-10-02	M	4.7	5.7	12.7	21.1
74767-10-03	M	3.4	5.1	13.3	20.2
74767-10-04	M	3.5	5.2	12.9	20.9
74767-10-05	F	3.5	5.1	12.6	19.4
74767-10-06	F	4.0			
74767-10-07	F	3.9	4.9	12.1	19.1
74767-10-08	F	4.1	5.0	12.4	20.4
74767-10-09	F	3.7			
74767-10-10	F	4.1			
74767-10-11	F	4.1	4.7	12.7	20.4
74767-10-12	F	3.4			
MALES MEAN		3.9	5.3	12.9	20.7
FEMALES MEAN		3.9	4.9	12.5	19.8
74772-09-01	M	2.9	4.8	14.7	14.5
74772-09-02	M	2.9	4.4	16.3	13.3
74772-09-03	M	2.9			
74772-09-04	M	3.2	4.0	14.9	14.3
74772-09-05	M	3.6			
74772-09-06	M	2.9	3.4	13.2	12.8
74772-09-07	F	3.2	2.0	16.1	12.1
74772-09-08	F	3.0			
74772-09-09	F	0.9	1.1	3.0	4.9
74772-09-10	F	3.7	3.4	13.8	12.9
74772-09-11	F	2.8			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74772-09-12	F	3.0	4.3	3.1	
74772-09-13	F	3.1			
MALES MEAN		3.1	4.2	14.8	13.7
FEMALES MEAN		2.8	2.7	9.0	10.0
74773-15-01	M	3.0	2.1	14.4	5.7
74773-15-02	M	3.8	3.8	6.6	19.5
74773-15-03	M	3.4	2.9	11.1	12.7
74773-15-04	M	3.9	2.6	11.5	12.9
74773-15-05	F	3.6	2.9	10.7	13.1
74773-15-06	F	3.4	2.6	10.1	12.7
MALES MEAN		3.5	2.9	10.9	12.7
FEMALES MEAN		3.5	2.8	10.4	12.9
74773-08-02	M	4.6			
74773-08-03	M	3.6	4.1	15.1	17.6
74773-08-04	M	4.4	4.6	15.5	19.5
74773-08-05	M	4.1			
74773-08-06	M	4.1	4.0	16.3	16.0
74773-08-07	M	4.0			
74773-08-08	M	4.0	4.7	15.7	28.4
74773-08-09	F	3.5	3.6	15.3	16.9
74773-08-10	F	4.2			
74773-08-11	M	3.2			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 1:		0 PPM			
-----					
74773-08-12	F	3.4	4.6	15.1	19.4
74773-08-13	F	3.9	4.7	14.9	19.7
74773-08-14	F	3.6	4.7	15.7	19.2
74773-08-15	M	3.7			
MALES MEAN		4.0	4.4	15.7	20.4
FEMALES MEAN		3.7	4.4	15.3	18.8
74789-10-01	F	2.4			
74789-10-02	M	2.8	5.4	13.2	12.4
74789-10-03	F	3.3			
74789-10-04	M	3.1	4.8	13.3	12.5
74789-10-05	M	2.4	5.7	14.3	12.2
74789-10-06	M	2.3	5.2	13.3	12.1
74789-10-07	F	2.8			
74789-10-08	F	3.3			
74789-10-09	F	3.4	5.6	12.9	14.4
74789-10-10	F	2.6	5.5	13.3	14.5
74789-10-11	F	2.2			
74789-10-12	F	3.0	5.2	12.6	12.5
74789-10-13	F	2.7			
74789-10-14	F	2.5	5.5	12.0	11.8
MALES MEAN		2.7	5.3	13.5	12.3
FEMALES MEAN		2.8	5.5	12.7	13.3

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 POSTNATAL DAY  
 PUP NUMBER SEX 1- 4 4- 7 7-14 14-21  
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DAMS FROM GROUP 1: 0 PPM  
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74789-09-01 M	2.4			
74789-09-02 M	2.2			
74789-09-03 M	2.2	4.9	14.9	19.0
74789-09-04 M	2.1	4.5	13.1	16.7
74789-09-05 M	2.4			
74789-09-06 M	3.3	4.2	15.1	18.7
74789-09-07 M	2.9			
74789-09-08 M	2.6			
74789-09-09 M	2.7			
74789-09-10 F	2.6	4.7	13.8	17.2
74789-09-11 F	2.7	4.8	13.6	17.2
74789-09-12 F	2.2	4.3	14.1	13.3
74789-09-13 F	2.8			
74789-09-14 F	2.7			
74789-09-15 F	2.3	4.8	14.0	17.4
MALES MEAN	2.5	4.5	14.4	18.1
FEMALES MEAN	2.6	4.7	13.9	16.3
74804-11-02 M	2.1	1.7	7.0	11.2
74804-11-03 M	1.9	1.3	9.6	10.7
74804-11-04 M	2.4	1.4	6.9	11.3
74804-11-05 F	1.8	0.2	7.9	10.2
74804-11-06 F	2.2	1.5	9.0	11.5
74804-11-07 F	1.9	1.0	7.4	11.3

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74804-11-08	F	2.2	1.6	8.3	10.5
MALES MEAN		2.1	1.5	7.8	11.1
FEMALES MEAN		2.0	1.1	8.2	10.9
74804-08-01	M	2.7			
74804-08-02	M	2.6	3.0	11.3	11.4
74804-08-03	M	3.2			
74804-08-04	M	3.1	3.1	13.2	14.5
74804-08-05	M	2.8			
74804-08-06	M	2.7	3.1	12.6	13.0
74804-08-07	M	3.4	3.1	11.8	14.1
74804-08-08	F	2.4			
74804-08-09	F	3.3	3.5	13.2	14.4
74804-08-10	F	3.1	3.1	13.1	17.4
74804-08-11	F	2.5			
74804-08-12	F	2.9	3.1	10.4	12.3
74804-08-13	F	2.9	2.7	11.4	13.3
74804-08-14	F	2.4			
74804-08-15	F	2.9			
MALES MEAN		2.9	3.1	12.2	13.3
FEMALES MEAN		2.8	3.1	12.0	14.4
74808-13-01	M	1.9	4.5	5.7	13.2
74808-13-02	M	3.1	4.5	5.8	14.2

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74808-13-03	M	3.2			
74808-13-05	M	2.6	5.0	6.5	15.8
74808-13-06	M	2.9	5.1	5.9	13.8
74808-13-07	F	2.6			
74808-13-08	M	2.9			
74808-13-09	M	3.0			
74808-13-10	F	3.1			
74808-13-11	F	2.7	3.5	5.5	12.2
74808-13-12	F	2.6	4.3	5.1	12.3
74808-13-13	F	3.3			
74808-13-14	F	2.6	4.5	6.0	14.9
74808-13-15	F	2.5	4.0	6.0	14.4
MALES MEAN		2.8	4.8	6.0	14.3
FEMALES MEAN		2.8	4.1	5.7	13.5
74808-11-01	M	2.7			
74808-11-02	M	2.5			
74808-11-03	M	2.3	3.2	15.0	16.3
74808-11-04	M	2.9	4.0	13.8	17.5
74808-11-05	M	2.0	3.5	13.0	15.8
74808-11-06	M	2.3	4.4	17.0	18.5
74808-11-07	F	1.7			
74808-11-08	F	2.2			
74808-11-09	F	1.8			
74808-11-10	F	1.4	2.1	11.6	12.9

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74808-11-11	F	1.6			
74808-11-12	F	2.2	4.4	14.3	16.3
74808-11-13	F	1.9			
74808-11-14	F	1.4	4.2	13.4	13.9
74808-11-15	F	1.8			
74808-11-16	F	2.0	4.1	14.7	13.7
MALES MEAN		2.5	3.8	14.7	17.0
FEMALES MEAN		1.8	3.7	13.5	14.2
74810-16-01	M	3.5	4.9	13.6	20.6
74810-16-02	M	3.8			
74810-16-03	M	3.9			
74810-16-04	M	4.1	5.3	14.2	24.4
74810-16-05	M	4.0	5.4	13.8	20.5
74810-16-06	M	4.2	5.6	13.2	20.7
74810-16-07	F	3.7	5.5	12.5	21.2
74810-16-08	F	3.4			
74810-16-09	F	4.0	5.6	13.1	20.7
74810-16-10	F	4.0	5.1	12.4	20.8
74810-16-11	F	4.0	5.2	14.9	21.4
74810-16-12	F	3.8			
MALES MEAN		3.9	5.3	13.7	21.6
FEMALES MEAN		3.8	5.4	13.2	21.0

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74826-08-01	M	2.9			
74826-08-02	M	3.3	3.5	12.2	13.7
74826-08-03	M	3.5	3.2	14.3	16.8
74826-08-04	M	3.4			
74826-08-05	M	2.7			
74826-08-06	M	3.1	3.5	12.7	15.8
74826-08-07	M	2.4			
74826-08-08	M	3.0	3.8	12.7	14.8
74826-08-09	F	2.1	2.8	12.0	13.8
74826-08-10	F	3.0	3.7	13.2	16.7
74826-08-11	F	3.3	2.2	13.5	17.1
74826-08-12	F	3.3			
74826-08-13	F	2.0			
74826-08-14	F	3.1			
74826-08-15	F	3.3	4.3	14.7	18.4
MALES MEAN		3.0	3.5	13.0	15.3
FEMALES MEAN		2.9	3.3	13.4	16.5
74829-11-01	M	1.9			
74829-11-02	M	1.9	5.2	13.8	18.2
74829-11-03	M	2.6	5.1	11.9	19.8
74829-11-04	M	3.0			
74829-11-05	M	2.2	4.5	14.3	18.6
74829-11-06	M	2.1	6.0	13.5	20.3
74829-11-07	F	2.0	5.0	13.4	15.6

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 1:		0 PPM			
-----					
74829-11-08	F	1.9	4.4	13.7	18.2
74829-11-09	F	2.4			
74829-11-10	F	2.1	5.1	15.6	18.9
74829-11-11	F	2.6			
74829-11-12	F	2.5	5.0	14.1	19.1
74829-11-13	F	1.8			
74829-11-14	F	1.7			
74829-11-15	F	1.6			
74829-11-16	F	1.9			
74829-11-17	F	1.6			
MALES MEAN		2.3	5.2	13.4	19.2
FEMALES MEAN		2.0	4.9	14.2	18.0
74840-03-01	M	5.3	5.0	13.0	21.0
74840-03-02	M	5.6	4.1	12.3	20.9
74840-03-03	M	5.9	5.4	14.3	21.4
74840-03-04	F	5.4	5.8	14.8	24.1
74840-03-05	F	5.7	4.8	14.1	13.7
74840-03-06	F	5.0	4.4	15.3	22.0
MALES MEAN		5.6	4.8	13.2	21.1
FEMALES MEAN		5.4	5.0	14.7	19.9
74841-12-01	M	2.1	3.8	10.4	9.5
74841-12-02	M	2.3	4.6	11.9	13.7

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 1:		0 PPM			
74841-12-03	M	2.7	4.5	11.2	10.8
74841-12-04	M	1.8	3.6	10.6	11.5
74841-12-05	F	3.0	4.2	11.1	13.7
74841-12-06	F	2.5			
74841-12-07	F	2.3			
74841-12-08	F	2.4	3.2	11.0	11.8
74841-12-09	F	2.0	4.3	12.1	14.1
74841-12-10	F	2.8	3.7	10.9	13.0
74841-12-11	F	2.6			
74841-12-12	F	1.7			
74841-12-13	F	2.3			
74841-12-14	F	1.7			
MALES MEAN		2.2	4.1	11.0	11.4
FEMALES MEAN		2.3	3.9	11.3	13.2
74844-07-01	M	2.6	4.2	12.9	17.8
74844-07-02	M	2.6	3.9	12.3	17.5
74844-07-03	M	2.3			
74844-07-04	M	3.0	4.2	12.9	17.7
74844-07-05	M	2.9	3.4	11.9	16.8
74844-07-06	F	2.5			
74844-07-07	F	2.7	4.0	12.5	17.1
74844-07-08	F	2.1	3.7	11.2	15.8
74844-07-09	F	2.5			
74844-07-10	F	2.3			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 1:		0 PPM			
-----					
74844-07-11	F	2.0			
74844-07-12	F	2.7	3.8	10.6	14.9
74844-07-13	F	3.0	3.5	12.3	15.5
MALES MEAN		2.7	3.9	12.5	17.5
FEMALES MEAN		2.5	3.8	11.7	15.8
74845-07-02	M	3.1	3.0	13.0	19.0
74845-07-03	M	3.0	3.6	14.1	20.7
74845-07-04	M	3.0	3.1	13.4	17.2
74845-07-05	M	2.8	3.6	13.2	16.4
74845-07-06	M	2.5			
74845-07-07	M	2.8			
74845-07-08	M	2.8			
74845-07-09	F	3.4	3.0	12.7	17.0
74845-07-10	F	2.7			
74845-07-11	F	3.0	2.4	12.8	15.1
74845-07-12	F	2.7	3.0	13.1	17.6
74845-07-13	F	3.0	3.6	13.2	17.3
74845-07-14	F	2.9			
MALES MEAN		2.9	3.3	13.4	18.3
FEMALES MEAN		3.0	3.0	13.0	16.8
74867-07-01	M	3.8	3.6	13.2	17.9
74867-07-02	M	3.1	4.3	14.2	18.1

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 1:		0 PPM			
-----					
74867-07-03	M	4.3	4.6	15.1	23.0
74867-07-04	F	2.9	3.5	13.3	17.7
74867-07-05	F	3.4			
74867-07-06	F	3.6	4.4	14.1	16.4
74867-07-07	F	3.5	3.2	12.8	16.3
74867-07-08	F	3.4	4.2	13.7	18.0
74867-07-09	F	3.6	4.0	15.6	17.0
MALES MEAN		3.7	4.2	14.2	19.7
FEMALES MEAN		3.4	3.9	13.9	17.1
MALES MEAN		3.1	4.2	12.7	16.6
	SD	0.83	0.98	2.20	3.47
	N	22	22	22	22
FEMALES MEAN		2.9	4.0	12.3	15.8
	SD	0.87	1.08	2.26	3.14
	N	22	22	22	22

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74742-18-01	M	2.9	2.5	10.9	9.5
74742-18-02	M	3.8			
74742-18-03	M	3.9	3.0	10.3	9.5
74742-18-04	M	3.7	3.0	10.9	10.0
74742-18-05	M	4.1	2.6	10.8	9.8
74742-18-06	M	3.6			
74742-18-07	F	3.0	3.1	10.9	10.6
74742-18-08	F	4.0			
74742-18-09	F	3.2	2.9	9.6	8.7
74742-18-10	F	3.0			
74742-18-11	F	3.7	3.0	11.0	10.2
74742-18-12	F	3.6	2.7	9.6	8.9
MALES MEAN		3.7	2.8	10.7	9.7
FEMALES MEAN		3.4	2.9	10.3	9.6
-----					
74746-10-01	M	2.4			
74746-10-02	M	2.2			
74746-10-03	M	2.4	2.8	13.3	13.6
74746-10-04	M	1.7	0.5		
74746-10-05	M	1.7			
74746-10-06	M	1.6	2.0	12.4	13.9
74746-10-07	M	1.9			
74746-10-08	M	2.0			
74746-10-09	M	1.7	2.9	12.5	13.7
74746-10-10	M	1.9			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74746-10-11	F	0.9			
74746-10-12	F	0.9			
74746-10-13	F	1.4			
74746-10-14	F	2.5			
74746-10-15	F	2.2	2.4	12.7	13.7
74746-10-16	F	2.1	1.5	12.5	9.0
74746-10-17	F	2.4	2.5	13.4	14.1
MALES MEAN		2.0	2.1	12.7	13.7
FEMALES MEAN		1.8	2.1	12.9	12.3
74753-12-01	M	0.4			
74753-12-02	M	1.5	3.5	14.7	12.2
74753-12-03	M	1.2			
74753-12-04	M	0.3			
74753-12-05	M	0.8			
74753-12-06	M	-0.4	2.3	10.9	11.9
74753-12-07	M	1.3			
74753-12-08	M	1.4	2.8	11.4	11.0
74753-12-09	M	0.5	2.2	10.6	10.1
74753-12-10	M	-0.2			
74753-12-11	M	1.8	3.2	14.5	12.7
74753-12-12	M	0.2			
74753-12-14	F	1.7	3.4	12.1	10.0
74753-12-16	F	0.3	2.9	13.7	13.6

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 2:		500 PPM			
74753-12-17	F	1.0	2.9	11.2	12.8
MALES MEAN		0.7	2.8	12.4	11.6
FEMALES MEAN		1.0	3.1	12.3	12.1
74761-12-01	M	2.0	2.0	8.4	10.3
74761-12-02	M	3.6	2.0	9.6	10.1
74761-12-03	M	3.3	1.8	10.4	11.6
74761-12-04	M	3.2	1.7	8.2	7.5
74761-12-05	F	2.2	1.8	7.9	10.1
74761-12-06	F	2.1			
74761-12-07	F	2.0			
74761-12-08	F	2.9	1.9	8.0	9.9
74761-12-09	F	2.3	2.0	7.9	8.4
74761-12-11	F	3.0	1.6	7.4	8.6
MALES MEAN		3.0	1.9	9.2	9.9
FEMALES MEAN		2.4	1.8	7.8	9.3
74762-11-01	M	1.6	2.5	12.1	10.7
74762-11-02	M	2.1			
74762-11-03	M	0.9			
74762-11-04	M	1.0	2.6	11.0	11.6
74762-11-05	M	1.9	2.8	12.0	11.6
74762-11-06	M	0.9	3.0	10.4	9.3
74762-11-07	F	1.9	2.6	11.8	10.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74762-11-08	F	1.2			
74762-11-09	F	2.2			
74762-11-10	F	1.6	2.7	12.0	11.7
74762-11-11	F	1.8	3.2	10.8	10.1
74762-11-12	F	1.5	2.7	12.0	14.3
74762-11-13	F	1.4			
MALES MEAN		1.4	2.7	11.4	10.8
FEMALES MEAN		1.7	2.8	11.7	11.7
74782-09-01	M	0.8			
74782-09-02	M	1.0			
74782-09-03	M	1.1	1.5	7.3	6.5
74782-09-04	M	1.1	1.8	5.7	3.4
74782-09-05	M	1.3	1.2	6.0	3.6
74782-09-06	F	1.0	1.7	5.7	5.0
74782-09-07	F	1.2	1.8	6.0	5.0
74782-09-08	F	1.3	0.4	4.3	4.5
74782-09-09	F	1.5	2.1	5.8	7.4
74782-09-10	M	1.8	1.3	6.0	5.2
MALES MEAN		1.2	1.5	6.3	4.7
FEMALES MEAN		1.3	1.5	5.5	5.5
74785-08-01	M	1.6	1.9	10.7	9.1
74785-08-02	M	1.9			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74785-08-03	M	1.5	1.8	10.9	8.8
74785-08-04	M	1.3			
74785-08-05	M	1.1	1.9	11.2	9.5
74785-08-06	M	0.7			
74785-08-07	M	1.4	1.6	10.9	9.8
74785-08-08	M	1.9			
74785-08-09	M	1.2			
74785-08-10	F	2.1	2.2	10.6	9.1
74785-08-11	F	1.4	1.7	9.5	8.4
74785-08-12	F	1.4	1.9	12.1	10.5
74785-08-13	F	1.6	2.5	9.8	9.8
MALES MEAN		1.4	1.8	10.9	9.3
FEMALES MEAN		1.6	2.1	10.5	9.5
74790-15-01	M	2.1	3.5	12.1	13.8
74790-15-02	M	3.0			
74790-15-03	M	2.8			
74790-15-04	M	2.5	3.8	11.6	14.4
74790-15-05	M	3.5	4.9	14.2	15.6
74790-15-06	M	2.2			
74790-15-07	M	3.6			
74790-15-08	M	2.9	4.7	14.0	14.7
74790-15-09	M	3.0			
74790-15-10	M	2.9			
74790-15-11	M	2.7			

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PUP NUMBER SEX	POSTNATAL DAY			
	1- 4	4- 7	7-14	14-21
-----				
DAMS FROM GROUP 2:            500 PPM				
-----				
74790-15-12 F	1.0			
74790-15-13 F	1.7	4.3	12.9	15.8
74790-15-14 F	2.3	4.4	13.1	14.4
74790-15-15 F	2.5	5.1	16.2	14.1
74790-15-16 F	3.0	4.1	12.7	18.1
MALES MEAN	2.8	4.2	13.0	14.6
FEMALES MEAN	2.1	4.5	13.7	15.6
74790-14-01 M	4.0	4.0	11.4	11.2
74790-14-02 M	3.7			
74790-14-03 M	3.6	3.7	12.2	8.9
74790-14-04 M	3.4			
74790-14-05 M	3.4	4.2	13.0	8.9
74790-14-06 M	3.8	4.3	12.2	8.2
74790-14-07 M	3.2			
74790-14-08 F	3.1	3.4	11.1	10.6
74790-14-09 M	3.5			
74790-14-10 F	3.6	4.9	12.9	9.2
74790-14-11 F	2.9	3.8	11.3	8.7
74790-14-12 F	3.4	3.5	12.4	11.8
MALES MEAN	3.6	4.1	12.2	9.3
FEMALES MEAN	3.3	3.9	11.9	10.1
74796-15-01 M	1.1	2.2	10.1	11.2

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74796-15-02	M	1.5	2.5	13.2	11.6
74796-15-03	F	1.7	2.7	10.4	10.7
74796-15-04	M	1.1	2.4	11.5	10.2
74796-15-05	M	1.5			
74796-15-06	M	2.0			
74796-15-07	M	1.7			
74796-15-08	M	1.6	2.6	14.5	12.1
74796-15-09	M	1.4			
74796-15-11	F	0.7			
74796-15-12	F	1.4	2.7	12.7	11.6
74796-15-13	F	1.5			
74796-15-14	F	1.4	2.7	11.2	10.4
74796-15-15	F	0.9			
74796-15-16	F	1.1	3.0	13.0	12.0
74796-15-17	F	1.4			
MALES MEAN		1.5	2.4	12.3	11.3
FEMALES MEAN		1.3	2.8	11.8	11.2
-----					
74798-13-01	M	1.7	3.8	13.5	13.0
74798-13-02	M	2.2	2.9	10.2	10.2
74798-13-03	M	2.9	5.4	17.0	14.0
74798-13-04	M	2.0	3.6	13.0	10.0
74798-13-05	M	1.9			
74798-13-06	M	2.1			
74798-13-07	M	2.4			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 2:		500 PPM			
74798-13-08	M	2.7			
74798-13-09	F	2.4	3.1	10.5	11.6
74798-13-10	F	1.6	2.8	7.8	7.3
74798-13-11	F	2.2			
74798-13-12	F	1.7	1.9	7.6	8.0
74798-13-13	F	2.2			
74798-13-14	F	2.4			
74798-13-15	F	2.9	4.9	16.2	15.4
MALES MEAN		2.2	3.9	13.4	11.8
FEMALES MEAN		2.2	3.2	10.5	10.6
74798-12-01	M	3.0			
74798-12-02	M	2.9			
74798-12-03	M	3.0	4.8	14.5	13.2
74798-12-04	M	3.0	4.5	13.9	15.5
74798-12-05	M	2.4			
74798-12-06	M	3.3			
74798-12-07	M	2.6	4.6	15.1	12.2
74798-12-08	M	3.3	3.5	14.2	10.2
74798-12-09	F	2.7	5.3	14.8	13.3
74798-12-10	F	2.8	4.0	13.8	12.9
74798-12-11	F	2.3			
74798-12-12	F	2.2			
74798-12-13	F	3.2	5.2	14.1	11.4

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 2:		500 PPM			
74798-12-14	F	2.5	4.3	14.0	10.9
MALES MEAN		2.9	4.4	14.4	12.8
FEMALES MEAN		2.6	4.7	14.2	12.1
74802-10-01	M	3.1			
74802-10-02	M	3.8			
74802-10-03	M	3.6	3.7	13.3	8.4
74802-10-04	M	2.9			
74802-10-05	M	3.1	4.2	13.8	7.2
74802-10-06	M	3.3	4.1	13.3	9.1
74802-10-07	M	2.9			
74802-10-08	M	3.2	4.1	12.4	8.5
74802-10-09	M	3.2			
74802-10-10	F	2.9	3.8	11.7	6.6
74802-10-11	F	2.9	3.9	11.0	7.9
74802-10-12	F	2.7	3.7	12.7	7.4
74802-10-13	M	3.5			
74802-10-14	F	3.1	4.4	13.3	8.8
MALES MEAN		3.3	4.0	13.2	8.3
FEMALES MEAN		2.9	4.0	12.2	7.7
74809-08-01	M	3.1			
74809-08-02	M	2.1	3.6	13.4	15.4
74809-08-03	M	1.0	1.2	8.3	12.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74809-08-04	M	0.8	3.0	10.1	13.2
74809-08-05	M	2.1	2.7	11.3	13.5
74809-08-06	F	2.6	3.9	12.5	15.4
74809-08-07	F	1.9	2.9	12.7	11.5
74809-08-08	F	2.3			
74809-08-09	F	2.6			
74809-08-10	F	2.5	3.4	12.8	15.4
74809-08-11	F	2.1			
74809-08-12	F	2.5			
74809-08-13	F	2.7	3.9	14.3	17.0
74809-08-14	F	2.1			
MALES MEAN		1.8	2.6	10.8	13.7
FEMALES MEAN		2.4	3.5	13.1	14.8
74816-12-01	M	3.3	4.0	12.4	16.8
74816-12-02	M	2.2	3.5	10.2	13.8
74816-12-03	M	2.6	3.6	12.1	15.3
74816-12-04	M	2.7			
74816-12-05	M	1.9			
74816-12-06	M	3.2			
74816-12-07	M	2.7			
74816-12-08	M	3.5	3.2	12.6	12.4
74816-12-09	F	2.4			
74816-12-10	F	2.5			
74816-12-11	F	2.1	3.6	8.9	11.7

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74816-12-12	F	2.8			
74816-12-13	F	3.0	3.8	10.1	12.9
74816-12-14	F	2.6	3.2	11.0	12.0
74816-12-15	F	2.2			
74816-12-16	F	2.8	3.1	10.5	14.4
MALES MEAN		2.8	3.6	11.8	14.6
FEMALES MEAN		2.6	3.4	10.1	12.8
74819-10-01	M	2.6			
74819-10-02	M	2.4			
74819-10-03	M	2.8			
74819-10-04	M	3.0			
74819-10-05	M	3.0			
74819-10-06	M	3.2	4.5	12.9	18.2
74819-10-07	M	2.7	4.3	12.8	16.5
74819-10-08	M	2.1			
74819-10-09	M	2.7	4.3	14.2	17.9
74819-10-10	M	2.5	4.6	14.0	19.1
74819-10-11	M	2.4			
74819-10-12	F	2.3	3.8	12.3	15.6
74819-10-13	F	2.6	4.2	13.5	19.4
74819-10-14	F	3.0	4.9	13.0	18.0
74819-10-15	F	2.8	4.3	13.7	17.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 2:		500 PPM			
74819-10-16	F	3.1			
	MALES MEAN	2.7	4.4	13.5	17.9
	FEMALES MEAN	2.8	4.3	13.1	17.6
74823-12-01	M	3.2	3.8	14.2	15.8
74823-12-02	M	2.7	3.3	14.3	17.1
74823-12-03	M	3.1			
74823-12-05	M	3.3	3.3	14.3	16.6
74823-12-06	M	3.2	3.1	14.5	16.3
74823-12-08	M	3.4			
74823-12-09	M	3.3			
74823-12-10	F	2.6	3.6	14.2	15.7
74823-12-11	F	3.1			
74823-12-12	F	2.8	3.1	13.9	15.0
74823-12-13	F	3.0	3.3	13.3	14.7
74823-12-14	F	3.5	3.1	14.2	17.7
74823-12-15	F	2.9			
	MALES MEAN	3.2	3.4	14.3	16.5
	FEMALES MEAN	3.0	3.3	13.9	15.8
74835-07-01	M	3.5			
74835-07-03	M	3.9	4.3	12.8	13.1
74835-07-04	M	2.4	1.4	7.5	10.0
74835-07-05	M	3.7	3.6	12.5	14.8

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74835-07-06	M	3.8	3.5	11.9	12.8
74835-07-07	F	3.6	4.3	9.3	10.9
74835-07-08	F	3.0	3.2	10.4	10.6
74835-07-09	F	3.8	3.8	10.2	9.8
74835-07-10	F	3.2			
74835-07-11	F	3.5			
74835-07-12	F	3.6			
74835-07-13	F	3.8	3.3	11.8	16.0
MALES MEAN		3.5	3.2	11.2	12.7
FEMALES MEAN		3.5	3.7	10.4	11.8
-----					
74838-11-01	M	4.3	4.0	12.4	17.6
74838-11-02	M	2.4			
74838-11-03	M	4.0	3.6	13.8	19.4
74838-11-04	M	3.7	4.4	14.5	22.4
74838-11-05	M	3.0			
74838-11-06	M	3.3	3.4	13.7	19.3
74838-11-07	M	2.2			
74838-11-08	F	3.2			
74838-11-09	F	3.3			
74838-11-10	F	3.0			
74838-11-11	F	3.6	3.8	13.7	19.3
74838-11-12	F	3.2			
74838-11-13	F	2.4			
74838-11-14	F	2.8	4.2	13.3	17.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74838-11-15	F	3.0	3.2	11.6	16.3
74838-11-16	F	3.2			
74838-11-17	F	3.2	3.1	9.4	14.3
MALES MEAN		3.3	3.9	13.6	19.7
FEMALES MEAN		3.1	3.6	12.0	16.9
74846-07-01	M	3.0	4.0	12.6	17.0
74846-07-02	M	3.1	4.2	11.8	16.8
74846-07-03	M	3.2	4.2	12.3	20.7
74846-07-04	M	2.6	3.8	13.1	16.0
74846-07-05	F	3.5	4.1	12.5	15.0
74846-07-06	F	3.0			
74846-07-07	F	2.8			
74846-07-08	F	2.7	4.2	13.4	17.1
74846-07-09	F	3.1			
74846-07-10	F	3.4	4.3	13.4	18.6
74846-07-11	F	3.1			
74846-07-12	F	3.2			
74846-07-13	F	3.3	4.0	13.6	17.7
MALES MEAN		3.0	4.1	12.5	17.6
FEMALES MEAN		3.1	4.2	13.2	17.1
74856-15-01	M	2.8	3.3	11.8	16.1
74856-15-02	M	3.1			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74856-15-03	M	2.3	3.0	11.5	14.6
74856-15-04	M	2.8			
74856-15-05	M	2.5	3.7	11.6	17.1
74856-15-06	F	2.7	3.4	12.6	14.4
74856-15-07	F	3.0	3.9	14.5	17.4
74856-15-08	F	2.5			
74856-15-09	F	2.9			
74856-15-10	F	2.4	3.4	13.8	15.8
74856-15-11	F	2.8	3.1	12.1	13.9
74856-15-12	F	2.1			
74856-15-13	M	3.0	4.1	14.0	17.0
MALES MEAN		2.8	3.5	12.2	16.2
FEMALES MEAN		2.6	3.5	13.3	15.4
-----					
74859-09-01	M	2.2	2.4	11.2	11.2
74859-09-02	M	2.0	1.9	11.2	10.1
74859-09-03	M	2.7			
74859-09-04	M	2.4			
74859-09-05	M	3.7			
74859-09-06	M	3.1			
74859-09-07	M	1.2	1.3	9.6	9.7
74859-09-08	M	3.3			
74859-09-09	M	1.9	0.7	11.7	9.9
74859-09-10	F	2.6			
74859-09-11	F	2.4	0.6	11.6	11.0

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74859-09-12	F	1.7			
74859-09-13	F	1.6	1.9	10.4	12.4
74859-09-14	F	2.7	2.0	14.0	11.1
74859-09-15	F	1.2	2.2	11.8	7.5
MALES MEAN		2.5	1.6	10.9	10.2
FEMALES MEAN		2.0	1.7	12.0	10.5
74859-12-01	M	2.0			
74859-12-02	M	3.3	3.2	12.6	16.0
74859-12-03	M	2.6			
74859-12-04	M	2.8	2.5	11.7	13.9
74859-12-05	M	2.0	2.9	8.6	9.4
74859-12-06	M	2.5	2.6	9.9	11.9
74859-12-07	F	3.0	2.4	11.5	13.0
74859-12-08	F	2.9			
74859-12-09	F	1.7			
74859-12-10	F	3.2			
74859-12-11	F	2.4	2.6	9.9	11.7
74859-12-12	F	2.8	2.3	8.9	11.2
74859-12-13	F	2.4	2.5	9.9	10.4
MALES MEAN		2.5	2.8	10.7	12.8
FEMALES MEAN		2.6	2.5	10.1	11.6
74861-05-01	M	-0.8			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74861-05-02	M	0.9	-0.9		
74861-05-03	F	0.1	0.6		
74861-05-04	F	-0.8			
74861-05-05	F	0.0	-0.7		
MALES MEAN		0.1	-0.9		
FEMALES MEAN		-0.2	-0.1		
-----					
74869-04-01	M	2.1	2.7	12.3	14.8
74869-04-02	M	1.5			
74869-04-03	M	2.6	2.9	12.5	15.7
74869-04-04	M	2.4			
74869-04-05	M	1.9	2.4	11.0	11.3
74869-04-06	M	2.2			
74869-04-07	M	2.1	3.2	12.3	16.0
74869-04-08	M	2.6			
74869-04-09	M	2.1	2.7	11.5	10.6
74869-04-10	M	2.3			
74869-04-11	M	2.1			
74869-04-12	M	1.7			
74869-04-13	M	1.9			
74869-04-14	F	2.2	2.8	12.1	12.1
74869-04-15	F	2.3	2.4	12.4	14.9

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 228 (F2)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL OFFSPRING WEIGHT CHANGES [G]

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 2:		500 PPM			
-----					
74869-04-16	F	1.8	2.5	11.2	9.7
MALES MEAN		2.1	2.8	11.9	13.7
FEMALES MEAN		2.1	2.6	11.9	12.2
MALES MEAN		2.4	2.9	11.9	12.6
SD		0.94	1.20	1.74	3.45
N		25	25	24	24
FEMALES MEAN		2.3	3.0	11.6	12.2
SD		0.86	1.10	1.99	3.07
N		25	25	24	24

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74738-07-01	M	3.2	3.3	12.8	9.2
74738-07-02	M	3.1	3.6	12.2	9.2
74738-07-03	M	3.1	3.9	14.0	12.2
74738-07-04	M	3.1	4.0	13.8	11.4
74738-07-05	F	3.0			
74738-07-06	F	2.5			
74738-07-07	F	3.1	3.1	13.7	10.2
74738-07-08	F	2.6			
74738-07-09	F	2.3			
74738-07-10	F	2.7	2.5	10.5	9.9
74738-07-11	F	2.4	3.1	13.1	10.7
74738-07-12	F	1.7	2.2	11.2	9.1
74738-07-13	F	2.6			
MALES MEAN		3.1	3.7	13.2	10.5
FEMALES MEAN		2.5	2.7	12.1	10.0
74738-12-01	M	3.0	4.1	9.9	9.8
74738-12-02	M	3.2			
74738-12-03	M	2.6	3.8	12.7	12.3
74738-12-04	M	3.0	4.5	12.0	11.9
74738-12-05	M	3.3	4.0	12.5	13.1
74738-12-06	F	2.4			
74738-12-07	F	2.9			
74738-12-08	F	2.4	3.1	10.8	10.4
74738-12-09	F	2.5	3.4	9.7	10.1

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PUP NUMBER SEX	POSTNATAL DAY			
	1- 4	4- 7	7-14	14-21
-----				
DAMS FROM GROUP 3:		1000 PPM		
-----				
74738-12-10 F	3.1	3.8	9.9	10.8
74738-12-11 F	2.4	3.1	7.3	8.3
74738-12-12 F	3.3			
74738-12-13 F	2.9			
MALES MEAN	3.0	4.1	11.8	11.8
FEMALES MEAN	2.7	3.4	9.4	9.9
74743-08-01 M	3.0	5.1	12.7	18.3
74743-08-02 M	2.9			
74743-08-03 M	3.0			
74743-08-04 M	3.0	5.4	12.5	21.0
74743-08-05 M	3.5			
74743-08-06 M	2.8			
74743-08-07 M	3.0			
74743-08-08 M	2.7	4.9	12.6	19.9
74743-08-09 M	3.8			
74743-08-10 M	3.3	5.1	13.4	18.4
74743-08-11 F	3.1	4.2	11.8	16.4
74743-08-12 F	2.3	4.7	11.5	15.6
74743-08-13 F	2.6	5.2	12.9	14.7
74743-08-14 F	2.5			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74743-08-15	F	2.6	4.7	13.5	17.9
MALES MEAN		3.1	5.1	12.8	19.4
FEMALES MEAN		2.6	4.7	12.4	16.2
74748-11-01	M	2.1	-0.7		
74748-11-02	M	1.2	2.9	12.4	7.9
74748-11-03	M	1.7	2.5	11.2	8.5
74748-11-04	M	2.2	3.0	10.6	7.0
74748-11-05	F	2.4			
74748-11-06	F	1.7			
74748-11-07	F	2.0			
74748-11-08	F	2.3	3.3	10.4	9.4
74748-11-09	F	1.9			
74748-11-10	F	2.1			
74748-11-11	F	2.6			
74748-11-12	F	0.8			
74748-11-13	F	3.0	3.9	19.4	16.5
74748-11-14	F	1.5	2.5	11.3	7.6
74748-11-15	F	3.1	3.7	15.4	10.3
MALES MEAN		1.8	1.9	11.4	7.8
FEMALES MEAN		2.1	3.4	14.1	11.0
74752-10-01	M	3.2	4.9	13.5	17.5
74752-10-02	M	2.6			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 3:		1000 PPM			
-----					
74752-10-03	M	3.6			
74752-10-04	M	3.2			
74752-10-05	M	3.7	4.5	13.4	20.7
74752-10-06	M	2.3	6.5	13.5	17.7
74752-10-07	M	2.2	4.9	13.6	18.4
74752-10-08	M	3.6			
74752-10-09	F	2.4	4.6	12.7	16.3
74752-10-10	F	3.2	4.9	14.1	17.8
74752-10-11	F	1.9	3.7	13.4	16.1
74752-10-12	F	3.2			
74752-10-13	F	3.1			
74752-10-14	F	2.8			
74752-10-15	F	3.4			
74752-10-16	F	3.1	4.7	13.8	16.5
74752-10-17	F	2.9			
MALES MEAN		3.1	5.2	13.5	18.6
FEMALES MEAN		2.9	4.5	13.5	16.7
-----					
74780-04-01	M	3.2			
74780-04-02	M	2.9			
74780-04-03	M	3.2	3.0	11.1	10.2
74780-04-04	M	2.7	3.5	13.0	16.3
74780-04-05	M	3.3			
74780-04-06	M	3.1	2.7	11.5	12.4
74780-04-07	M	3.4	3.0	12.7	15.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 3:		1000 PPM			
-----					
74780-04-08	F	3.2			
74780-04-09	F	2.9	3.2	10.5	14.0
74780-04-10	F	2.9	3.2	11.6	14.9
74780-04-11	F	3.1	2.8	12.0	13.4
74780-04-12	F	3.2			
74780-04-14	F	3.1	2.9	12.0	14.2
MALES MEAN		3.1	3.1	12.1	13.6
FEMALES MEAN		3.1	3.0	11.5	14.1
74791-13-01	M	2.7			
74791-13-02	M	2.4	3.5	10.1	11.3
74791-13-03	M	3.0	3.3	10.3	11.1
74791-13-04	M	1.6	2.7	10.9	10.5
74791-13-05	M	2.3	3.5	9.9	11.1
74791-13-06	F	2.1	2.6	10.6	9.9
74791-13-07	F	2.4	4.1	9.9	10.0
74791-13-08	F	3.2			
74791-13-09	F	2.8			
74791-13-10	F	2.1			
74791-13-11	F	2.6	3.7	10.7	11.1
74791-13-12	F	3.0	2.9	10.1	11.7
MALES MEAN		2.4	3.3	10.3	11.0
FEMALES MEAN		2.6	3.3	10.3	10.7

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74793-14-01	M	3.5			
74793-14-02	M	3.1	5.1	13.7	11.7
74793-14-03	M	3.1			
74793-14-04	M	3.7	4.8	12.7	13.2
74793-14-05	M	3.4	5.3	12.7	11.5
74793-14-06	M	3.1			
74793-14-07	M	2.9			
74793-14-08	M	4.0	5.2	13.1	13.0
74793-14-09	F	2.9			
74793-14-10	F	3.0	5.3	12.9	12.2
74793-14-11	F	2.4	4.9	13.0	11.0
74793-14-12	F	3.1	4.4	13.4	13.0
74793-14-13	F	2.8	4.2	11.8	11.2
MALES MEAN		3.4	5.1	13.1	12.4
FEMALES MEAN		2.8	4.7	12.8	11.9
74799-14-01	M	2.8			
74799-14-02	M	2.7	4.4	11.6	13.3
74799-14-03	M	2.3			
74799-14-04	M	2.3	4.4	11.6	11.1
74799-14-05	M	2.0	4.1	9.7	9.6
74799-14-06	M	2.7			
74799-14-07	M	2.1	3.9	10.0	7.2
74799-14-10	M	2.4			
74799-14-11	F	2.1	3.6	9.5	6.3

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74799-14-12	F	2.3	4.2	10.2	9.2
74799-14-13	F	2.6	4.3	12.1	10.8
74799-14-15	F	2.4	3.8	11.6	10.6
MALES MEAN		2.4	4.2	10.7	10.3
FEMALES MEAN		2.4	4.0	10.9	9.2
74806-11-01	M	3.8	4.3	13.5	17.2
74806-11-02	M	2.9			
74806-11-03	M	3.7	4.2	12.8	16.0
74806-11-04	M	3.6			
74806-11-05	M	3.1	4.2	12.4	11.3
74806-11-06	M	3.4	4.6	13.0	10.2
74806-11-07	F	2.7	4.1	12.2	14.3
74806-11-08	F	3.3	4.3	12.9	15.0
74806-11-09	F	3.1	4.0	12.0	12.7
74806-11-10	F	2.8			
74806-11-11	F	2.9	3.7	12.6	12.1
74806-11-12	F	3.3			
74806-11-13	F	3.0			
MALES MEAN		3.4	4.3	12.9	13.7
FEMALES MEAN		3.0	4.0	12.4	13.5
74820-12-02	M	3.0	4.7	9.4	12.2
74820-12-03	M	2.7	5.7	11.5	12.1

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74820-12-04	F	3.5	5.4	12.0	15.2
74820-12-05	F	2.9	4.5	10.5	11.3
74820-12-06	F	2.8			
74820-12-07	F	3.3	5.3	11.2	12.3
74820-12-08	F	2.7	5.0	10.7	11.4
74820-12-09	F	3.5			
74820-12-10	F	3.0	4.6	11.3	14.0
74820-12-11	F	3.2			
74820-12-12	F	3.0	5.5	11.0	13.1
74820-12-13	F	3.5			
MALES MEAN		2.9	5.2	10.5	12.2
FEMALES MEAN		3.1	5.1	11.1	12.9
74821-09-01	M	3.5	3.6	11.7	13.1
74821-09-02	M	3.9	4.4	12.8	13.2
74821-09-03	M	4.2			
74821-09-04	M	4.1	3.5	12.9	15.4
74821-09-05	M	4.5	3.9	13.0	14.8
74821-09-06	F	3.7	4.1	13.0	15.8
74821-09-07	F	3.3			
74821-09-08	F	3.9	3.9	12.2	12.3
74821-09-09	F	2.4	2.3	9.2	7.0
74821-09-10	F	3.9			
74821-09-11	F	4.6			
74821-09-12	F	3.6	3.8	11.8	11.8

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74821-09-13	F	3.4			
	MALES MEAN	4.0	3.9	12.6	14.1
	FEMALES MEAN	3.6	3.5	11.6	11.7
74821-07-01	M	2.6	3.7	13.2	13.0
74821-07-02	M	2.2			
74821-07-03	M	2.0			
74821-07-04	M	2.9	4.0	12.0	11.9
74821-07-05	M	3.9			
74821-07-06	M	1.5			
74821-07-07	M	2.8	3.0	13.1	10.7
74821-07-08	M	3.3			
74821-07-09	M	3.3	3.6	13.0	12.6
74821-07-10	M	2.3			
74821-07-11	F	3.2	3.2	13.8	12.4
74821-07-12	F	1.8	2.5	8.6	8.5
74821-07-13	F	2.9	3.5	11.6	11.4
74821-07-14	F	1.8	2.9	9.4	8.2
74821-07-15	F	3.7			
74821-07-16	F	2.6			
74821-07-17	F	2.9			
	MALES MEAN	2.7	3.6	12.8	12.1
	FEMALES MEAN	2.7	3.0	10.9	10.1

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 3:		1000 PPM			
-----					
74831-12-02	M	2.8			
74831-12-03	M	2.8	3.3	14.8	10.0
74831-12-04	M	2.4	3.1	13.8	9.6
74831-12-06	M	1.5	3.2	13.7	8.6
74831-12-07	M	2.6	3.1	14.6	9.3
74831-12-08	M	3.6			
74831-12-09	M	1.6			
74831-12-10	F	0.2	2.1	11.5	8.8
74831-12-11	F	2.2	2.8	13.5	9.3
74831-12-13	F	2.5			
74831-12-14	F	1.9			
74831-12-15	F	2.1			
74831-12-16	F	2.2	2.7	13.4	9.0
74831-12-17	F	1.6			
74831-12-18	F	1.6			
MALES MEAN		2.5	3.2	14.2	9.4
FEMALES MEAN		1.8	2.5	12.8	9.0
74834-07-02	M	3.0	2.9	10.5	12.1
74834-07-03	M	1.8	2.1	8.0	7.6
74834-07-04	F	3.7	2.9	10.4	11.4
74834-07-05	F	3.7	3.2	11.5	13.1
74834-07-06	F	4.0	3.8	11.8	16.0
74834-07-07	F	3.8	3.2	11.8	11.5
74834-07-08	F	2.7	2.4	7.7	7.1

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74834-07-09	F	4.1	3.5	12.6	13.3
MALES MEAN		2.4	2.5	9.3	9.9
FEMALES MEAN		3.7	3.2	11.0	12.1
74847-09-01	M	3.1			
74847-09-02	M	3.1	4.9	13.1	20.0
74847-09-03	M	3.0			
74847-09-04	M	3.6	4.9	13.2	19.0
74847-09-05	M	3.4	4.6	13.3	17.4
74847-09-06	M	3.9	4.4	13.7	18.8
74847-09-07	M	4.1			
74847-09-08	F	3.2	4.1	13.7	16.4
74847-09-09	F	3.0			
74847-09-10	F	3.6	4.1	12.1	16.8
74847-09-11	F	3.5			
74847-09-12	F	2.9	4.4	12.5	11.9
74847-09-13	F	3.3	4.4	13.3	19.6
74847-09-14	F	3.5			
MALES MEAN		3.5	4.7	13.3	18.8
FEMALES MEAN		3.3	4.3	12.9	16.2
74848-04-02	M	2.0	3.9	13.3	10.3
74848-04-03	M	2.1			
74848-04-04	M	2.4	4.5	14.9	11.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74848-04-05	M	2.2			
74848-04-06	M	2.4			
74848-04-07	M	1.9			
74848-04-08	M	2.1	3.9	14.1	10.1
74848-04-09	M	1.4	5.3	15.5	11.8
74848-04-10	M	2.7			
74848-04-11	M	1.9			
74848-04-12	F	2.1			
74848-04-13	F	1.9			
74848-04-14	F	1.8	4.1	14.8	10.2
74848-04-15	F	2.0	4.5	15.2	11.9
74848-04-16	F	1.7	4.4	14.1	10.4
74848-04-17	F	1.5	3.9	13.2	11.4
74848-04-18	F	1.7			
MALES MEAN		2.1	4.4	14.5	10.9
FEMALES MEAN		1.8	4.2	14.3	11.0
74849-07-01	M	3.1	2.6	13.8	9.4
74849-07-02	M	2.4	2.3	11.0	8.9
74849-07-03	M	2.9	1.8	12.2	6.4
74849-07-04	M	3.2			
74849-07-05	M	2.2			
74849-07-06	M	2.0			
74849-07-07	M	2.0	1.3	9.5	4.6
74849-07-08	F	2.1			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 3:		1000 PPM			
-----					
74849-07-09	F	2.5			
74849-07-10	F	2.4	1.9	12.1	10.4
74849-07-11	F	2.5			
74849-07-12	F	2.5	1.3	9.3	8.5
74849-07-13	F	1.7	1.7	9.5	4.8
74849-07-14	F	1.4	1.1	7.2	6.5
MALES MEAN		2.5	2.0	11.6	7.3
FEMALES MEAN		2.2	1.5	9.5	7.6
74850-11-01	M	2.1			
74850-11-02	M	2.6	3.9	11.2	7.3
74850-11-03	M	3.0	3.8	11.5	9.7
74850-11-04	M	2.9			
74850-11-05	M	2.7	3.8	10.9	9.1
74850-11-06	M	1.9	2.8	10.6	7.0
74850-11-07	M	3.2			
74850-11-08	M	2.9			
74850-11-09	M	3.0			
74850-11-10	F	2.3	3.6	10.6	8.0
74850-11-11	F	2.5	4.1	11.7	11.0
74850-11-12	F	2.5	4.0	11.9	9.2

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 3:		1000 PPM			
74850-11-13	F	2.6	4.3	11.3	13.4
MALES MEAN		2.7	3.6	11.1	8.3
FEMALES MEAN		2.5	4.0	11.4	10.4
74850-14-01	M	3.4	4.9	13.4	10.2
74850-14-02	M	3.2			
74850-14-03	M	3.0	3.4	12.7	8.7
74850-14-04	M	3.7			
74850-14-05	M	3.8	3.5	12.1	10.5
74850-14-06	M	3.4	4.2	12.9	9.9
74850-14-07	F	3.3	3.8	14.1	9.5
74850-14-08	F	2.8			
74850-14-09	F	3.0			
74850-14-10	F	3.5	4.0	11.8	9.1
74850-14-11	F	3.5	4.1	13.3	7.8
74850-14-12	F	2.7	3.7	12.5	10.2
MALES MEAN		3.4	4.0	12.8	9.8
FEMALES MEAN		3.1	3.9	12.9	9.2
74855-11-02	M	3.9	2.9	8.7	11.8
74855-11-03	M	3.6			
74855-11-04	M	4.0	2.8	8.2	11.7
74855-11-05	M	3.3	3.5	8.8	12.9
74855-11-06	F	3.8			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 3:		1000 PPM			
-----					
74855-11-07	F	3.4			
74855-11-08	F	4.5	3.9	8.9	14.0
74855-11-09	F	4.1	3.4	9.7	12.5
74855-11-10	F	3.7	3.0	9.7	13.8
74855-11-11	F	4.2			
74855-11-12	F	4.2	3.2	9.3	13.4
74855-11-13	M	3.9	2.7	9.8	11.0
MALES MEAN		3.7	3.0	8.9	11.9
FEMALES MEAN		4.0	3.4	9.4	13.4
-----					
74868-20-01	F	1.0	0.7	7.6	7.0
74868-20-02	M	1.3	1.6	9.6	9.7
74868-20-03	M	1.4			
74868-20-04	M	1.3	1.7	9.9	9.0
74868-20-05	M	1.4	1.6	9.2	10.4
74868-20-06	M	1.7	1.6	9.8	9.7
74868-20-07	F	1.6			
74868-20-08	F	1.2	1.2	9.0	10.3
74868-20-09	F	0.5			
74868-20-10	F	1.7			
74868-20-11	F	1.4	1.6	9.2	10.5

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PUP NUMBER SEX	POSTNATAL DAY			
	1- 4	4- 7	7-14	14-21
-----				
DAMS FROM GROUP 3:		1000 PPM		
-----				
74868-20-12 F	1.2	1.5	7.4	9.6
MALES MEAN	1.4	1.6	9.6	9.7
FEMALES MEAN	1.2	1.3	8.3	9.4
74871-09-01 M	2.7	5.2	10.0	18.8
74871-09-02 M	2.1	5.1	8.9	18.3
74871-09-03 M	0.8			
74871-09-04 M	2.0	4.1	10.3	17.3
74871-09-05 M	2.6	4.5	9.7	16.9
74871-09-06 M	1.7			
74871-09-07 M	1.6			
74871-09-08 M	2.4			
74871-09-09 F	1.4	3.1	7.7	14.7
74871-09-10 F	1.1			
74871-09-11 F	2.1	4.7	8.7	15.8
74871-09-12 F	2.4	4.8	8.5	
74871-09-13 F	2.2	2.9	8.7	14.3
74871-09-14 F	2.1			
MALES MEAN	2.0	4.7	9.7	17.8
FEMALES MEAN	1.9	3.9	8.4	14.9
MALES MEAN	2.8	3.8	11.9	12.2
SD	0.64	1.07	1.60	3.50
N	23	23	23	23
FEMALES MEAN	2.7	3.5	11.5	11.8
SD	0.67	0.95	1.69	2.55
N	23	23	23	23

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74751-13-01	M	0.7			
74751-13-02	M	2.9			
74751-13-03	M	3.4			
74751-13-04	M	2.3			
74751-13-05	M	2.5			
74751-13-06	M	2.2	3.6	10.1	10.3
74751-13-07	M	2.6	3.9	11.3	10.4
74751-13-08	M	2.3	3.2	9.8	9.5
74751-13-09	F	2.1			
74751-13-10	F	2.4	3.4	10.7	11.1
74751-13-11	F	3.2	4.0	11.2	12.6
74751-13-12	F	2.2			
74751-13-13	F	2.5	3.9	10.8	11.4
74751-13-14	F	2.6	4.0	11.1	10.9
74751-13-15	F	2.1			
MALES MEAN		2.4	3.6	10.4	10.1
FEMALES MEAN		2.4	3.8	11.0	11.5
74754-15-01	M	3.1	4.3	10.8	15.3
74754-15-02	M	3.4			
74754-15-03	M	3.3			
74754-15-04	M	3.2	4.1	11.1	18.0
74754-15-05	M	3.7	4.0	10.4	15.6
74754-15-06	M	3.3	4.8	9.3	17.0
74754-15-07	M	3.7			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74754-15-08	F	3.1	3.6	11.4	14.3
74754-15-09	F	2.8			
74754-15-10	F	3.1	4.1	11.1	16.8
74754-15-11	F	3.5			
74754-15-12	F	3.4	4.3	9.8	17.7
74754-15-13	F	3.6	4.8	9.3	15.9
74754-15-14	F	3.4			
74754-15-15	F	2.8			
MALES MEAN		3.4	4.3	10.4	16.5
FEMALES MEAN		3.2	4.2	10.4	16.2
-----					
74768-11-01	M	2.2	3.1	11.9	12.0
74768-11-02	M	1.6	3.3	10.8	11.5
74768-11-03	M	2.5			
74768-11-04	M	3.6			
74768-11-05	M	3.4			
74768-11-06	M	2.1	-0.9		
74768-11-07	M	2.5	3.2	11.2	10.1
74768-11-08	M	2.4			
74768-11-09	F	2.2	2.6	11.3	11.3
74768-11-10	F	2.3			
74768-11-11	F	1.5	2.6	10.3	11.0
74768-11-12	F	2.8			
74768-11-13	F	2.7	3.1	12.9	15.1
74768-11-14	F	1.7			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74768-11-15	F	2.2			
74768-11-16	F	1.5			
74768-11-17	F	2.5	4.4	11.8	14.3
MALES MEAN		2.5	2.2	11.3	11.2
FEMALES MEAN		2.2	3.2	11.6	12.9
74769-08-03	M	4.5	3.7	12.9	12.2
74769-08-04	M	3.3	3.8	11.8	11.0
74769-08-05	M	4.1	4.0	13.7	14.3
74769-08-06	M	3.6	3.6	12.7	13.7
74769-08-07	M	3.3			
74769-08-08	F	3.7	3.2	11.1	10.2
74769-08-09	F	3.5	2.9	11.1	12.4
74769-08-10	F	3.8	3.6	13.2	12.3
74769-08-11	F	2.7	2.9	10.3	10.0
MALES MEAN		3.8	3.8	12.8	12.8
FEMALES MEAN		3.4	3.2	11.4	11.2
74770-11-01	M	3.4			
74770-11-02	M	3.6	5.4	13.6	13.9
74770-11-03	M	2.4			
74770-11-04	M	3.0	5.6	13.2	10.9
74770-11-05	M	3.6	5.3	14.3	13.8
74770-11-06	M	3.1			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74770-11-07	M	3.1	5.9	14.9	14.6
74770-11-08	F	3.0	4.6	11.6	9.9
74770-11-09	F	2.5	4.6	12.6	9.5
74770-11-10	F	2.8			
74770-11-11	F	2.6			
74770-11-12	F	3.2	5.7	12.4	10.3
74770-11-13	F	2.5			
74770-11-14	F	3.2			
74770-11-15	F	3.0	5.9	13.7	12.8
MALES MEAN		3.2	5.6	14.0	13.3
FEMALES MEAN		2.9	5.2	12.6	10.6
74770-10-01	M	3.3	7.0	16.7	19.9
74770-10-02	M	3.8			
74770-10-03	M	3.2	5.8	17.2	19.0
74770-10-04	M	4.1			
74770-10-05	M	2.7	7.3	16.5	17.1
74770-10-06	M	3.6	6.1	16.6	18.3
74770-10-07	M	3.3			
74770-10-08	M	3.4			
74770-10-09	M	3.0			
74770-10-10	M	3.7			
74770-10-11	M	3.9			
74770-10-12	F	4.2	6.7	18.1	19.1
74770-10-13	F	3.5	6.4	16.1	20.4

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74770-10-14	F	2.4	6.2	15.6	14.4
74770-10-15	F	3.9			
74770-10-16	F	3.5	5.5	15.3	17.8
MALES MEAN		3.5	6.6	16.8	18.6
FEMALES MEAN		3.5	6.2	16.3	17.9
74786-10-01	M	3.1			
74786-10-02	M	1.9			
74786-10-03	M	2.7	4.2	11.6	12.8
74786-10-04	M	2.7			
74786-10-05	M	2.3			
74786-10-06	M	2.7			
74786-10-07	M	2.0			
74786-10-08	M	2.3	3.7	12.0	12.7
74786-10-09	M	3.1	4.3	11.5	13.9
74786-10-10	M	2.5	3.8	11.6	12.5
74786-10-11	M	2.7			
74786-10-12	F	2.7	4.4	11.9	13.3
74786-10-13	F	2.3			
74786-10-14	F	1.8			
74786-10-15	F	1.7	3.8	11.5	11.5
74786-10-16	F	2.8			
74786-10-17	F	2.7	4.2	11.2	11.1

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74786-10-18	F	2.4	3.8	11.3	13.1
MALES MEAN		2.5	4.0	11.7	13.0
FEMALES MEAN		2.3	4.1	11.5	12.3
74792-12-01	M	3.7	3.4	10.4	16.9
74792-12-02	M	3.5			
74792-12-03	M	2.5			
74792-12-04	M	3.2	3.9	10.1	13.1
74792-12-05	M	4.1	3.2	11.2	16.2
74792-12-06	M	2.5			
74792-12-07	M	3.7	4.1	11.1	15.6
74792-12-08	F	3.8	3.5	10.5	16.8
74792-12-09	F	3.1			
74792-12-10	F	3.5			
74792-12-11	F	2.8			
74792-12-12	F	2.7	3.5	9.9	14.7
74792-12-13	F	3.5	3.4	10.4	14.4
74792-12-14	F	2.3	3.6	10.5	15.1
MALES MEAN		3.3	3.7	10.7	15.5
FEMALES MEAN		3.1	3.5	10.3	15.3
74807-08-02	M	1.1			
74807-08-03	M	2.3			
74807-08-04	M	2.1			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74807-08-05	M	2.0	2.9	10.0	6.4
74807-08-06	M	2.5	4.3	12.8	7.0
74807-08-07	M	2.2	4.4	12.4	7.7
74807-08-08	M	2.2			
74807-08-09	M	2.3	3.4	11.6	7.0
74807-08-10	F	2.1			
74807-08-11	F	2.2	4.0	12.1	7.9
74807-08-12	F	1.8	3.6	10.9	6.3
74807-08-13	F	2.1			
74807-08-14	F	1.5	3.6	9.2	6.3
74807-08-15	F	1.9	3.2	9.8	7.8
74807-08-16	F	2.1			
MALES MEAN		2.1	3.8	11.7	7.0
FEMALES MEAN		2.0	3.6	10.5	7.1
-----					
74811-13-01	M	4.0			
74811-13-02	M	3.6	3.7	10.9	14.0
74811-13-03	M	3.9	3.7	10.9	14.9
74811-13-04	M	3.4	3.8	10.5	12.3
74811-13-05	M	3.5			
74811-13-06	M	4.0	3.2	11.6	12.3
74811-13-07	F	4.1	3.4	10.6	13.6
74811-13-08	F	2.9	3.2	11.7	14.0
74811-13-09	F	2.7	3.0	10.4	11.9

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74811-13-10	F	2.9	3.1	11.1	13.9
MALES MEAN		3.7	3.6	11.0	13.4
FEMALES MEAN		3.2	3.2	11.0	13.4
74817-13-01	M	2.9			
74817-13-02	M	2.4			
74817-13-03	M	2.3	3.1	11.2	12.8
74817-13-04	M	3.0	2.8	13.1	16.9
74817-13-05	M	3.8	4.1	15.1	18.0
74817-13-06	M	3.4	3.5	9.2	15.3
74817-13-07	F	3.4			
74817-13-08	F	2.5	3.0	8.2	13.2
74817-13-09	F	2.8	3.2	11.4	15.3
74817-13-10	F	1.9			
74817-13-11	F	2.2			
74817-13-12	F	2.2	2.5	11.1	13.8
74817-13-13	F	3.3			
74817-13-14	F	2.1			
74817-13-15	F	1.4	2.6	9.9	13.8
74817-13-16	F	2.5			
MALES MEAN		3.0	3.4	12.2	15.8
FEMALES MEAN		2.4	2.8	10.2	14.0
74822-08-01	M	2.4	3.2	11.4	12.5

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74822-08-02	M	3.6	2.9	11.1	12.0
74822-08-03	M	2.2			
74822-08-04	M	2.0	3.4	9.6	13.2
74822-08-05	M	2.7	2.6	10.7	14.1
74822-08-06	F	2.4	3.7	12.8	12.5
74822-08-07	F	2.6	3.5	13.5	11.5
74822-08-08	F	3.0	3.1	10.5	10.6
74822-08-09	F	3.6			
74822-08-10	F	2.6	4.0	11.3	12.0
74822-08-11	F	2.8			
74822-08-12	M	2.8			
74822-08-13	F	3.3			
74822-08-14	F	2.7			
MALES MEAN		2.6	3.0	10.7	13.0
FEMALES MEAN		2.9	3.6	12.0	11.7
74827-11-01	M	3.4	3.0	11.1	10.1
74827-11-02	M	2.3			
74827-11-03	M	2.4	3.7	12.4	8.7
74827-11-04	M	3.6			
74827-11-05	M	3.7	2.9	13.7	11.3
74827-11-06	M	1.7	2.9	10.0	10.7
74827-11-07	F	3.3	3.5	11.8	9.7
74827-11-08	F	-0.3			
74827-11-09	F	2.8			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74827-11-10	F	2.9	3.3	10.3	8.1
74827-11-11	F	2.5	3.0	9.2	6.8
MALES MEAN		2.9	3.1	11.8	10.2
FEMALES MEAN		2.2	3.3	10.4	8.2
74832-07-01	M	2.5			
74832-07-02	M	2.5			
74832-07-03	M	2.3	2.7	8.9	10.4
74832-07-04	M	2.7			
74832-07-05	M	2.5			
74832-07-06	M	3.1	3.5	9.9	7.5
74832-07-07	M	2.8			
74832-07-08	M	2.3	3.0	9.1	11.4
74832-07-09	F	2.7	3.3	10.3	9.8
74832-07-10	F	2.1	3.0	8.3	8.2
74832-07-11	F	2.5			
74832-07-12	F	2.7	2.7	9.1	11.1
74832-07-13	F	1.9	3.3	8.5	9.0
74832-07-14	M	2.6	3.0	9.3	10.2
MALES MEAN		2.6	3.1	9.3	9.9
FEMALES MEAN		2.4	3.1	9.1	9.5
74833-11-02	M	3.6			
74833-11-03	M	2.5			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74833-11-04	M	4.2	4.9	11.3	13.5
74833-11-05	M	4.0	4.0	11.5	13.7
74833-11-06	M	4.3			
74833-11-07	M	4.1	4.5	10.9	13.3
74833-11-08	M	3.8	4.4	11.4	13.9
74833-11-09	F	3.7	5.2	11.7	13.1
74833-11-10	F	3.1			
74833-11-11	F	3.9	5.4	11.2	11.0
74833-11-12	F	3.4	4.4	10.2	11.9
74833-11-13	F	3.9			
74833-11-14	F	3.1	4.5	11.4	11.6
MALES MEAN		3.8	4.5	11.3	13.6
FEMALES MEAN		3.5	4.9	11.1	11.9
-----					
74836-12-02	F	1.9			
74836-12-03	M	2.9	3.9	12.8	14.8
74836-12-04	M	2.7			
74836-12-05	M	3.1	3.8	12.2	13.7
74836-12-06	M	3.1	4.7	11.9	15.5
74836-12-07	M	2.2	4.1	13.1	16.5
74836-12-08	F	2.6	3.7	12.6	14.1
74836-12-09	F	2.3			
74836-12-10	F	3.0			
74836-12-11	F	1.7	3.0	11.2	12.3
74836-12-12	F	2.7			

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74836-12-14	F	2.7	3.7	10.3	16.2
74836-12-15	F	2.5	4.4	11.1	13.9
MALES MEAN		2.8	4.1	12.5	15.1
FEMALES MEAN		2.4	3.7	11.3	14.1
74836-11-01	M	2.6			
74836-11-02	M	2.8			
74836-11-03	M	3.4			
74836-11-04	M	3.7	4.0	11.8	15.7
74836-11-05	M	3.3			
74836-11-06	M	3.4	4.0	11.3	14.7
74836-11-07	M	3.3			
74836-11-08	M	3.1	3.8	11.1	15.4
74836-11-09	M	2.9			
74836-11-10	M	3.6	3.1	11.8	14.6
74836-11-11	F	3.3			
74836-11-12	F	3.0	3.9	11.9	13.0
74836-11-13	F	2.4			
74836-11-14	F	2.9	2.7	11.6	13.6
74836-11-15	F	3.2	3.4	12.4	15.1
74836-11-16	F	2.2	3.6	12.2	15.8
MALES MEAN		3.2	3.7	11.5	15.1
FEMALES MEAN		2.8	3.4	12.0	14.4

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74853-11-01	M	2.7			
74853-11-02	M	3.0			
74853-11-03	M	2.8			
74853-11-04	M	3.4	4.4	7.0	6.7
74853-11-05	M	3.5	4.2	8.1	5.5
74853-11-06	M	4.1	2.9	7.9	7.7
74853-11-07	M	3.2	3.7	7.3	4.8
74853-11-08	M	3.5			
74853-11-09	F	3.3			
74853-11-10	F	3.8			
74853-11-11	F	3.4			
74853-11-12	F	3.8	4.1	7.5	7.5
74853-11-13	F	2.9			
74853-11-14	F	3.7	3.9	6.9	6.6
74853-11-15	F	2.5			
74853-11-16	F	3.3	5.0	5.8	5.7
74853-11-17	F	2.7	4.3	7.7	7.4
MALES MEAN		3.3	3.8	7.6	6.2
FEMALES MEAN		3.3	4.3	7.0	6.8
74853-12-01	M	4.8	2.9	10.0	13.6
74853-12-02	M	4.9	3.0	9.7	13.5
74853-12-03	M	4.6	3.1	9.8	13.8
74853-12-04	M	5.1	2.7	9.3	12.0
74853-12-05	F	4.8	2.2	10.7	9.0

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74853-12-06	F	4.5	3.2	9.9	12.7
74853-12-07	F	4.5	2.8	9.9	11.1
74853-12-08	F	4.7	2.6	10.0	11.4
MALES MEAN		4.9	2.9	9.7	13.2
FEMALES MEAN		4.6	2.7	10.1	11.1
74857-09-01	M	3.1	4.6	12.0	17.9
74857-09-02	M	2.7	3.8	11.2	12.8
74857-09-03	M	3.0			
74857-09-04	M	3.4			
74857-09-05	M	3.1	4.5	11.2	15.9
74857-09-06	M	4.3	5.4	12.7	16.8
74857-09-07	M	2.1			
74857-09-08	F	3.4	4.6	12.4	16.6
74857-09-09	F	2.9	2.8	9.2	11.7
74857-09-10	F	3.0	3.9	11.2	17.3
74857-09-11	F	3.0	2.9	11.9	13.2
74857-09-12	M	3.0			
MALES MEAN		3.1	4.6	11.8	15.9
FEMALES MEAN		3.1	3.6	11.2	14.7
74860-08-01	M	4.0	4.0	11.2	12.9
74860-08-02	M	3.7			
74860-08-03	M	3.8	3.9	11.0	11.8

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74860-08-04	M	3.6	4.2	11.2	11.0
74860-08-05	M	2.8	4.1	10.1	13.2
74860-08-06	F	3.0	3.6	9.7	10.1
74860-08-07	F	3.4			
74860-08-08	F	2.9	3.8	10.0	12.2
74860-08-09	F	3.3			
74860-08-10	F	2.8			
74860-08-12	F	3.3	4.1	11.1	11.5
74860-08-13	F	3.5	4.0	10.1	10.6
MALES MEAN		3.6	4.1	10.9	12.2
FEMALES MEAN		3.2	3.9	10.2	11.1
74862-13-02	M	3.4	4.9	15.3	20.3
74862-13-03	M	3.8	5.1	15.4	18.8
74862-13-04	M	2.9			
74862-13-05	M	3.1			
74862-13-06	M	2.9			
74862-13-07	M	3.7	6.2	15.4	21.8
74862-13-08	M	3.5	5.8	15.1	21.5
74862-13-09	F	3.9			
74862-13-10	F	3.3	3.8	14.3	18.0
74862-13-11	F	2.8	5.1	14.4	18.8
74862-13-12	F	2.0			
74862-13-13	F	3.5	4.2	14.0	19.7

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
DAMS FROM GROUP 4:		2500 PPM			
74862-13-14	F	2.6	4.4	13.2	16.8
MALES MEAN		3.3	5.5	15.3	20.6
FEMALES MEAN		3.0	4.4	14.0	18.3
74866-16-01	M	3.4	5.4	11.4	14.6
74866-16-02	M	3.5			
74866-16-03	M	3.5			
74866-16-04	M	3.8			
74866-16-05	M	4.2	6.9	10.4	14.8
74866-16-06	M	3.8			
74866-16-07	M	4.6	5.5	11.0	16.2
74866-16-08	M	3.3	4.2	9.4	11.3
74866-16-09	F	2.5			
74866-16-10	F	4.1	6.2	9.4	14.4
74866-16-11	F	3.3	4.8	10.1	10.2
74866-16-12	F	3.1	5.4	10.1	12.0
74866-16-13	F	3.2	5.2	10.0	12.6
MALES MEAN		3.8	5.5	10.6	14.2
FEMALES MEAN		3.2	5.4	9.9	12.3
74870-03-01	M	3.4			
74870-03-02	M	4.0			
74870-03-03	M	4.5	4.4	10.9	11.9
74870-03-04	M	4.3	4.0	12.1	14.0

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PUP NUMBER	SEX	POSTNATAL DAY			
		1- 4	4- 7	7-14	14-21
-----					
DAMS FROM GROUP 4:		2500 PPM			
-----					
74870-03-05	M	3.9	3.9	11.0	13.0
74870-03-06	M	4.1			
74870-03-07	M	3.4	3.7	10.0	8.8
74870-03-08	F	3.6			
74870-03-09	F	3.3	3.6	10.3	13.2
74870-03-10	F	3.9	4.1	11.6	15.5
74870-03-11	F	3.4			
74870-03-12	F	4.1			
74870-03-13	F	3.4			
74870-03-14	F	3.9	4.2	10.3	13.1
74870-03-15	F	3.8			
74870-03-16	F	4.2	4.1	11.0	14.1
MALES MEAN		3.9	4.0	11.0	11.9
FEMALES MEAN		3.7	4.0	10.8	14.0
MALES MEAN		3.2	4.0	11.5	13.3
SD		0.62	0.99	1.88	3.27
N		24	24	24	24
FEMALES MEAN		3.0	3.9	11.1	12.5
SD		0.60	0.85	1.70	2.96
N		24	24	24	24

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 229 (F2 - FOUND DEAD PUPS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
FOUND DEAD PUPS

PAGE 1

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74772-09	12	F	16	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
74773-08	1	M	0	STOMACH	MILK PRESENT		P
74789-09	1	M	4	GENERAL COMMENT	MECHANICAL TRAUMA FRACTURE OF PUBIS, BILATERAL, ISCHIUM, BILATERAL, ILIUM, BILATERAL AND ALL SACRAL VERTEBRAE		P
74804-11	1	M	0	STOMACH	MILK NOT PRESENT		P
74808-13	4	M	1	STOMACH	MILK NOT PRESENT		P
74845-07	1	M	0	GENERAL COMMENT	CANNIBALIZED		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 229 (F2 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 2

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74746-10	4	M	8	GENERAL COMMENT	CANNIBALIZED		P
	11	F	6	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
74753-12	13	M	4	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	15	F	4		NO REMARKABLE OBSERVATIONS		
74823-12	4	M	2	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	7	M	1	STOMACH	MILK PRESENT		P
74861-05	1	M	6	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	2	M	14		NO REMARKABLE OBSERVATIONS		
	3	F	14		NO REMARKABLE OBSERVATIONS		
	4	F	6	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
	5	F	9	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 229 (F2 - FOUND DEAD PUPS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 FOUND DEAD PUPS

PAGE 3

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74748-11	1	M	8	LUNGS	DISCOLORATION, DARK RED ALL LOBES		P
				GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE BRAIN, ABDOMINAL AND URINARY/REPRODUCTIVE		P
74780-04	13	F	3	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
74799-14	9	M	3	GENERAL COMMENT	CANNIBALIZED		P
74820-12	1	M	0	STOMACH	MILK NOT PRESENT		P
74831-12	1	M	0	STOMACH	MILK NOT PRESENT		P
	5	M	1	STOMACH	MILK PRESENT		P
	18	F	7	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE THORACIC, ABDOMINAL AND URINARY/REPRODUCTIVE		P
74834-07	1	M	0	STOMACH	MILK NOT PRESENT		P
74848-04	1	F	0	STOMACH	MILK NOT PRESENT		P
74871-09	12	F	16		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 229 (F2 - FOUND DEAD PUPS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
FOUND DEAD PUPS

PAGE 4

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74751-13	1	M	5	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE DIAPHRAGM, LIVER, STOMACH, INTESTINE, SPLEEN, KIDNEYS, URETERS AND BLADDER		P
74768-11	6	M	8		NO REMARKABLE OBSERVATIONS		
74769-08	1	M	0	STOMACH	MILK NOT PRESENT		P
	2	M	0	STOMACH	MILK NOT PRESENT		P
74807-08	1	F	0	STOMACH	MILK NOT PRESENT		P
74827-11	8	F	5	GENERAL COMMENT	TOO AUTOLYZED TO EXAMINE ABDOMINAL AND URINARY/REPRODUCTIVE		P
74833-11	1	M	0	STOMACH	MILK NOT PRESENT		P
74836-12	1	M	0	STOMACH	MILK NOT PRESENT		P
	13	F	1	STOMACH	MILK NOT PRESENT		P
74862-13	1	M	0	STOMACH	MILK NOT PRESENT		P

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

PAGE 1

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74737-10	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74759-09	1	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74764-10	1	M	21		NO REMARKABLE	OBSERVATIONS	
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74767-16	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74767-10	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

PAGE 2

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74767-10 (CONTINUED)							
4	M		21		NO REMARKABLE	OBSERVATIONS	
7	F		21		NO REMARKABLE	OBSERVATIONS	
8	F		21		NO REMARKABLE	OBSERVATIONS	
11	F		21		NO REMARKABLE	OBSERVATIONS	
74772-09							
1	M		21		NO REMARKABLE	OBSERVATIONS	
4	M		21		NO REMARKABLE	OBSERVATIONS	
6	M		21		NO REMARKABLE	OBSERVATIONS	
7	F		21		NO REMARKABLE	OBSERVATIONS	
9	F		21		NO REMARKABLE	OBSERVATIONS	
74773-15							
2	M		21		NO REMARKABLE	OBSERVATIONS	
3	M		21		NO REMARKABLE	OBSERVATIONS	
4	M		21		NO REMARKABLE	OBSERVATIONS	
6	F		21		NO REMARKABLE	OBSERVATIONS	
74773-08							
3	M		21		NO REMARKABLE	OBSERVATIONS	
6	M		21		NO REMARKABLE	OBSERVATIONS	
8	M		21		NO REMARKABLE	OBSERVATIONS	
12	F		21		NO REMARKABLE	OBSERVATIONS	
13	F		21		NO REMARKABLE	OBSERVATIONS	
14	F		21		NO REMARKABLE	OBSERVATIONS	
74789-10							
2	M		21		NO REMARKABLE	OBSERVATIONS	
4	M		21		NO REMARKABLE	OBSERVATIONS	
6	M		21		NO REMARKABLE	OBSERVATIONS	
9	F		21		NO REMARKABLE	OBSERVATIONS	
12	F		21		NO REMARKABLE	OBSERVATIONS	
14	F		21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

PAGE 3

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74789-09	3	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	15	F	21		NO REMARKABLE	OBSERVATIONS	
74804-11	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	F	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
74804-08	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74808-13	2	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	
	15	F	21		NO REMARKABLE	OBSERVATIONS	
74808-11	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

PAGE 4

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74808-11 (CONTINUED)	12	F	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	
74810-16	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74826-08	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74829-11	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74840-03	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	F	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
74841-12	1	M	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 1: FINDING	0 PPM	GRADE
74841-12 (CONTINUED)							
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
74844-07							
	1	M	21		NO REMARKABLE	OBSERVATIONS	
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74845-07							
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74867-07							
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74742-18	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74746-10	3	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	16	F	21		NO REMARKABLE	OBSERVATIONS	
	17	F	21		NO REMARKABLE	OBSERVATIONS	
74753-12	2	M	21		NO REMARKABLE	OBSERVATIONS	
	8	M	21		NO REMARKABLE	OBSERVATIONS	
	9	M	21		NO REMARKABLE	OBSERVATIONS	
	11	M	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	
	17	F	21		NO REMARKABLE	OBSERVATIONS	
74761-12	2	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74762-11	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PAGE 7

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74762-11 (CONTINUED)							
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
74782-09							
	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	F	21		NO REMARKABLE OBSERVATIONS		
	7	F	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	10	M	21		NO REMARKABLE OBSERVATIONS		
74785-08							
	1	M	21		NO REMARKABLE OBSERVATIONS		
	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
74790-15							
	1	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
	15	F	21		NO REMARKABLE OBSERVATIONS		
	16	F	21		NO REMARKABLE OBSERVATIONS		
74790-14							
	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	F	21	KIDNEY	DILATED PELVIS RIGHT		2
	10	F	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74790-14 (CONTINUED)							
	12	F	21		NO REMARKABLE OBSERVATIONS		
74796-15	1	M	21		NO REMARKABLE OBSERVATIONS		
	3	F	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
74798-13	1	M	21		NO REMARKABLE OBSERVATIONS		
	2	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	15	F	21		NO REMARKABLE OBSERVATIONS		
74798-12	3	M	21		NO REMARKABLE OBSERVATIONS		
	7	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	9	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
74802-10	3	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21	KIDNEY	DILATED PELVIS RIGHT		1
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		

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GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74809-08	3	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	F	21		NO REMARKABLE OBSERVATIONS		
	7	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
74816-12	1	M	21		NO REMARKABLE OBSERVATIONS		
	3	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
	16	F	21		NO REMARKABLE OBSERVATIONS		
74819-10	6	M	21		NO REMARKABLE OBSERVATIONS		
	9	M	21		NO REMARKABLE OBSERVATIONS		
	10	M	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
	15	F	21		NO REMARKABLE OBSERVATIONS		
74823-12	1	M	21		NO REMARKABLE OBSERVATIONS		
	2	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
74835-07	3	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74835-07 (CONTINUED)							
	6	M	21		NO REMARKABLE OBSERVATIONS		
	7	F	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	9	F	21		NO REMARKABLE OBSERVATIONS		
74838-11							
	1	M	21		NO REMARKABLE OBSERVATIONS		
	3	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
	15	F	21		NO REMARKABLE OBSERVATIONS		
	17	F	21		NO REMARKABLE OBSERVATIONS		
74846-07							
	1	M	21		NO REMARKABLE OBSERVATIONS		
	2	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	5	F	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
74856-15							
	1	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	F	21		NO REMARKABLE OBSERVATIONS		
	7	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	13	M	21		NO REMARKABLE OBSERVATIONS		
74859-09							
	2	M	21		NO REMARKABLE OBSERVATIONS		
	7	M	21		NO REMARKABLE OBSERVATIONS		
	9	M	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 2: FINDING	500 PPM	GRADE
74859-09 (CONTINUED)							
14	F		21		NO REMARKABLE OBSERVATIONS		
15	F		21		NO REMARKABLE OBSERVATIONS		
74859-12							
2	M		21		NO REMARKABLE OBSERVATIONS		
4	M		21		NO REMARKABLE OBSERVATIONS		
6	M		21		NO REMARKABLE OBSERVATIONS		
7	F		21		NO REMARKABLE OBSERVATIONS		
11	F		21		NO REMARKABLE OBSERVATIONS		
12	F		21		NO REMARKABLE OBSERVATIONS		
74869-04							
1	M		21		NO REMARKABLE OBSERVATIONS		
3	M		21		NO REMARKABLE OBSERVATIONS		
7	M		21		NO REMARKABLE OBSERVATIONS		
9	M		21		NO REMARKABLE OBSERVATIONS		
14	F		21		NO REMARKABLE OBSERVATIONS		
15	F		21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74738-07	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74738-12	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74743-08	1	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	10	M	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
	15	F	21		NO REMARKABLE	OBSERVATIONS	
74748-11	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
	15	F	21		NO REMARKABLE	OBSERVATIONS	
74752-10	1	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74752-10 (CONTINUED)							
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	16	F	21		NO REMARKABLE	OBSERVATIONS	
74780-04							
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	
74791-13							
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74793-14							
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	8	M	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74799-14							
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74799-14 (CONTINUED)	13	F	21		NO REMARKABLE	OBSERVATIONS	
74806-11	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74820-12	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	F	21		NO REMARKABLE	OBSERVATIONS	
	5	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74821-09	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74821-07	1	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	9	M	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74831-12	3	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	7	M	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
74834-07	2	M	21		NO REMARKABLE OBSERVATIONS		
	4	F	21		NO REMARKABLE OBSERVATIONS		
	5	F	21		NO REMARKABLE OBSERVATIONS		
	6	F	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	9	F	21		NO REMARKABLE OBSERVATIONS		
74847-09	2	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
74848-04	4	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	9	M	21		NO REMARKABLE OBSERVATIONS		
	15	F	21		NO REMARKABLE OBSERVATIONS		
	16	F	21		NO REMARKABLE OBSERVATIONS		
	17	F	21		NO REMARKABLE OBSERVATIONS		
74849-07	1	M	21		NO REMARKABLE OBSERVATIONS		
	2	M	21		NO REMARKABLE OBSERVATIONS		
	3	M	21	KIDNEY	DILATED PELVIS		2

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74849-07 (CONTINUED)							
	10	F	21		RIGHT		
	12	F	21		NO REMARKABLE OBSERVATIONS		
	14	F	21		NO REMARKABLE OBSERVATIONS		
74850-11	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
74850-14	1	M	21		NO REMARKABLE OBSERVATIONS		
	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21	KIDNEY	DILATED PELVIS		1
	7	F	21		RIGHT		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
74855-11	2	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	9	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	12	F	21		NO REMARKABLE OBSERVATIONS		
74868-20	1	F	21	GENERAL COMMENT	TAIL ABSENT		P
	2	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 3: FINDING	1000 PPM	GRADE
74868-20 (CONTINUED)							
6	M		21		NO REMARKABLE OBSERVATIONS		
11	F		21		NO REMARKABLE OBSERVATIONS		
12	F		21		NO REMARKABLE OBSERVATIONS		
74871-09							
1	M		21		NO REMARKABLE OBSERVATIONS		
2	M		21		NO REMARKABLE OBSERVATIONS		
4	M		21		NO REMARKABLE OBSERVATIONS		
11	F		21		NO REMARKABLE OBSERVATIONS		
13	F		21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74751-13	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	M	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
74754-15	1	M	21		NO REMARKABLE OBSERVATIONS		
	4	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
74768-11	2	M	21		NO REMARKABLE OBSERVATIONS		
	7	M	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
	13	F	21		NO REMARKABLE OBSERVATIONS		
	17	F	21		NO REMARKABLE OBSERVATIONS		
74769-08	3	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	6	M	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		
	10	F	21		NO REMARKABLE OBSERVATIONS		
	11	F	21		NO REMARKABLE OBSERVATIONS		
74770-11	4	M	21		NO REMARKABLE OBSERVATIONS		
	5	M	21		NO REMARKABLE OBSERVATIONS		
	7	M	21		NO REMARKABLE OBSERVATIONS		
	8	F	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PAGE 19

		PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
-----								
74770-11 (CONTINUED)								
		9	F	21		NO REMARKABLE OBSERVATIONS		
		12	F	21		NO REMARKABLE OBSERVATIONS		
74770-10		1	M	21		NO REMARKABLE OBSERVATIONS		
		3	M	21		NO REMARKABLE OBSERVATIONS		
		5	M	21		NO REMARKABLE OBSERVATIONS		
		12	F	21		NO REMARKABLE OBSERVATIONS		
		13	F	21		NO REMARKABLE OBSERVATIONS		
		16	F	21		NO REMARKABLE OBSERVATIONS		
74786-10		3	M	21		NO REMARKABLE OBSERVATIONS		
		8	M	21		NO REMARKABLE OBSERVATIONS		
		10	M	21		NO REMARKABLE OBSERVATIONS		
		12	F	21		NO REMARKABLE OBSERVATIONS		
		15	F	21		NO REMARKABLE OBSERVATIONS		
		17	F	21		NO REMARKABLE OBSERVATIONS		
74792-12		1	M	21		NO REMARKABLE OBSERVATIONS		
		4	M	21		NO REMARKABLE OBSERVATIONS		
		5	M	21		NO REMARKABLE OBSERVATIONS		
		12	F	21		NO REMARKABLE OBSERVATIONS		
		13	F	21		NO REMARKABLE OBSERVATIONS		
		14	F	21		NO REMARKABLE OBSERVATIONS		
74807-08		5	M	21		NO REMARKABLE OBSERVATIONS		
		7	M	21		NO REMARKABLE OBSERVATIONS		
		9	M	21		NO REMARKABLE OBSERVATIONS		
		12	F	21		NO REMARKABLE OBSERVATIONS		
		14	F	21		NO REMARKABLE OBSERVATIONS		
		15	F	21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74811-13	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
74817-13	3	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	15	F	21		NO REMARKABLE	OBSERVATIONS	
74822-08	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
74827-11	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74832-07	3	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL PUP NECROPSY FINDINGS  
EUTHANIZED PUPS

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PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74832-07 (CONTINUED)							
12	F		21		NO REMARKABLE OBSERVATIONS		
13	F		21		NO REMARKABLE OBSERVATIONS		
14	M		21		NO REMARKABLE OBSERVATIONS		
74833-11							
5	M		21		NO REMARKABLE OBSERVATIONS		
7	M		21		NO REMARKABLE OBSERVATIONS		
8	M		21		NO REMARKABLE OBSERVATIONS		
9	F		21		NO REMARKABLE OBSERVATIONS		
11	F		21		NO REMARKABLE OBSERVATIONS		
12	F		21		NO REMARKABLE OBSERVATIONS		
74836-12							
5	M		21		NO REMARKABLE OBSERVATIONS		
6	M		21		NO REMARKABLE OBSERVATIONS		
7	M		21		NO REMARKABLE OBSERVATIONS		
11	F		21		NO REMARKABLE OBSERVATIONS		
14	F		21		NO REMARKABLE OBSERVATIONS		
15	F		21		NO REMARKABLE OBSERVATIONS		
74836-11							
4	M		21		NO REMARKABLE OBSERVATIONS		
6	M		21		NO REMARKABLE OBSERVATIONS		
10	M		21		NO REMARKABLE OBSERVATIONS		
12	F		21		NO REMARKABLE OBSERVATIONS		
15	F		21		NO REMARKABLE OBSERVATIONS		
16	F		21		NO REMARKABLE OBSERVATIONS		
74853-11							
4	M		21		NO REMARKABLE OBSERVATIONS		
6	M		21		NO REMARKABLE OBSERVATIONS		
7	M		21		NO REMARKABLE OBSERVATIONS		
12	F		21		NO REMARKABLE OBSERVATIONS		
16	F		21		NO REMARKABLE OBSERVATIONS		

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

PUP NO.		SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74853-11 (CONTINUED)							
	17	F	21		NO REMARKABLE	OBSERVATIONS	
74853-12	1	M	21		NO REMARKABLE	OBSERVATIONS	
	2	M	21		NO REMARKABLE	OBSERVATIONS	
	4	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	7	F	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
74857-09	1	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	M	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
74860-08	1	M	21		NO REMARKABLE	OBSERVATIONS	
	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	6	F	21		NO REMARKABLE	OBSERVATIONS	
	8	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
74862-13	2	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	8	M	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	11	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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PROJECT NO.:WIL-186013D  
 SPONSOR:ACC

TABLE 230 (F2 - PND 21 WEANLINGS NOT SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL PUP NECROPSY FINDINGS  
 EUTHANIZED PUPS

	PUP NO.	SEX	LACT DAY	TISSUE	GROUP 4: FINDING	2500 PPM	GRADE
74866-16	1	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	10	F	21		NO REMARKABLE	OBSERVATIONS	
	12	F	21		NO REMARKABLE	OBSERVATIONS	
	13	F	21		NO REMARKABLE	OBSERVATIONS	
74870-03	3	M	21		NO REMARKABLE	OBSERVATIONS	
	5	M	21		NO REMARKABLE	OBSERVATIONS	
	7	M	21		NO REMARKABLE	OBSERVATIONS	
	9	F	21		NO REMARKABLE	OBSERVATIONS	
	14	F	21		NO REMARKABLE	OBSERVATIONS	
	16	F	21		NO REMARKABLE	OBSERVATIONS	

GRADE CODE: 1 - SLIGHT, 2 - MODERATE, 3 - MARKED, P - PRESENT

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 09/05/2002  
 R:10/04/2002

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 1

ANIMAL NO.74737J01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4148 2.948 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1972 0.411 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2097 0.437 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 48. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 2

ANIMAL NO.74759I08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3731 2.985 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2557 0.556 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1322 0.287 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 46. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 3

ANIMAL NO.74764J05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4417 2.720 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2343 0.442 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2025 0.382 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 53. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

PAGE 4

ANIMAL NO.74767P03 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.2750	3.269	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.1690	0.433		ESOPHAGUS	EYES	HEART	
THYMUS GLAND	0.1622	0.416		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	39.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74767J02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4379 2.765 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2593 0.499 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1850 0.356 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 52. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74772I02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3436 2.986 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1696 0.377 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1396 0.310 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 45. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773001 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/20/02 DATE OF DEATH: 05/20/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1656 3.760 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1234 0.398 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1248 0.403 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 31. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773H04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5028 2.947 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2017 0.395 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1741 0.341 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 51. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789J05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4655 3.489 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1491 0.355 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1533 0.365 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789I04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4689 3.338 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1671 0.380 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1755 0.399 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 44. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804K04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/22/02 DATE OF DEATH: 05/22/02 STUDY DAY: 33  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3003 4.334 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0980 0.327 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1219 0.406 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 30. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804H06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3968 3.676 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1142 0.301 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1285 0.338 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808M01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3133 4.104 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1157 0.362 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1178 0.368 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 32. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808K06 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4462 2.892 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2451 0.490 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2027 0.405 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 50. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74810P01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3929 2.786 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2406 0.481 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1801 0.360 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 50. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74826H08 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4421 3.434 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1740 0.414 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2203 0.525 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

3466 of 3891

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74829K02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4193 3.085 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1943 0.422 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1955 0.425 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 46. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74840C02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/18/02 DATE OF DEATH: 05/18/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4453 2.727 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1934 0.365 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1681 0.317 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 53. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74841L04 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4331 4.215 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1302 0.383 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1259 0.370 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74844G05 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3912 3.312 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1715 0.408 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1651 0.393 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74845G02 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5097 3.282 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1862 0.405 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2103 0.457 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 46. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74867G01 GROUP 1: 0 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3924 2.963 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2025 0.431 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1971 0.419 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 47. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74742R04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS FINDINGS			
BRAIN	1.3667	3.905	CHANGES OBSERVED	ADRENAL GLANDS	SPINAL CORD	BRAIN	INTESTINE
SPLEEN	0.1571	0.449		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.1621	0.463		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	35.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74746J09 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3526 3.656 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1537 0.415 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1241 0.335 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74753L06 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3464 4.208 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1141 0.357 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1262 0.394 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 32. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74761L01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3354 4.605 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1109 0.382 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1033 0.356 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 29. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74762K01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3517 4.096 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1189 0.360 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1397 0.423 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74782I04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1220 5.905 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0433 0.228 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0661 0.348 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 19. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74785H07 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2572 4.055 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1003 0.324 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1168 0.377 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 31. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790004 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3162 3.464 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1652 0.435 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1625 0.428 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790N01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	GROSS:ADRENAL GLANDS			
BRAIN	1.4153	3.724	CHANGES OBSERVED	SPINAL CORD	BRAIN	INTESTINE	
SPLEEN	0.1401	0.369		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.1448	0.381		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	38.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74796002 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2653 3.721 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1322 0.389 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1339 0.394 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798M03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3636 2.964 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1847 0.402 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1484 0.323 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 46. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798L04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4827 3.370 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1691 0.384 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1494 0.340 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 44. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74802J05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/18/02 DATE OF DEATH: 05/18/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2906 3.687 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1143 0.327 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1576 0.450 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 35. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74809H02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4330 3.495 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1429 0.349 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2017 0.492 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74816L02 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3734 3.712 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1300 0.351 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1161 0.314 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74819J07 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4330 3.333 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1668 0.388 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1804 0.420 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 43. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74823L05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4136 3.141 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1949 0.433 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1845 0.410 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 45. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74835G05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4760 3.514 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1821 0.434 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1659 0.395 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74838K04 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4261 2.743 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2716 0.522 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1974 0.380 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 52. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74846G03 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4506 3.022 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2015 0.420 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2180 0.454 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 48. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74856003 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4518 3.924 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1746 0.472 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2385 0.645 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859I01 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3421 4.067 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1714 0.519 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1216 0.368 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859L05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3371 4.457 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0979 0.326 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1543 0.514 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 30. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74869D05 GROUP 2: 500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2756 3.865 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1404 0.425 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1215 0.368 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738G02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
 GRADE

ORGAN WEIGHT	ABS.(G)	REL.	NO SIGNIFICANT	-----			
BRAIN	1.3790	3.831	CHANGES OBSERVED	GROSS:ADRENAL GLANDS	SPINAL CORD	BRAIN	INTESTINE
SPLEEN	0.1127	0.313		EPIDIDYIMIDES	ESOPHAGUS	EYES	HEART
THYMUS GLAND	0.1204	0.334		KIDNEYS	LIVER	LYMPH NODE, MES	LUNGS
FINAL BODY WT(G)	36.			MAMMARY GLAND	PANCREAS	PITUITARY	PROSTATE
				SALIVARY GLANDS	SEMINAL VESICLES	SKIN	SPLEEN
				STOMACH	TESTES	THYMUS GLAND	THYROID GLANDS
				TRACHEA	URINARY BLADDER		

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738L01 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3649 4.014 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0987 0.290 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1053 0.310 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74743H08 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5020 3.196 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2051 0.436 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2154 0.458 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 47. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74748K03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/16/02 DATE OF DEATH: 05/16/02 STUDY DAY: 27  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2713 3.973 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1060 0.331 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1007 0.315 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 32. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74752J05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5422 3.147 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2526 0.516 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2024 0.413 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 49. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74780D03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3132 3.862 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1098 0.323 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1361 0.400 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74791M03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3769 4.050 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1132 0.333 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1459 0.429 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74793N05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3785 3.446 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1349 0.337 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1528 0.382 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74799N04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3768 3.934 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1209 0.345 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1440 0.411 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 35. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74806K01 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4377 3.125 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2345 0.510 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1702 0.370 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 46. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74820L02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4035 3.899 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1206 0.335 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1219 0.339 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 36. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821I01 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4589 3.741 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1828 0.469 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1586 0.407 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 39. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821G04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3634 3.588 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1049 0.276 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1485 0.391 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74831L06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3850 4.197 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1257 0.381 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1727 0.523 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74834G03 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2286 4.725 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0584 0.225 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0591 0.227 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 26. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74847I04 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4837 3.091 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2270 0.473 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1628 0.339 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 48. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74848D02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3593 3.674 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1081 0.292 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1470 0.397 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74849G07 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1568 5.030 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1214 0.528 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0566 0.246 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 23. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850K02 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2653 3.954 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1134 0.354 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1371 0.428 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 32. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850N06 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/19/02 DATE OF DEATH: 05/19/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3728 3.432 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1632 0.408 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0937 0.234 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74855K13 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3168 3.873 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1157 0.340 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1204 0.354 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74868T05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2075 4.164 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1187 0.409 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1037 0.358 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 29. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74871I05 GROUP 3: 1000 PPM MALE SCHEDULED EUTH 05/20/02 DATE OF DEATH: 05/20/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3423 3.356 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1362 0.340 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2035 0.509 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74751M07 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5301 4.372 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1135 0.324 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1742 0.498 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 35. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74754005 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3735 3.350 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1872 0.457 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1595 0.389 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74768K01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3123 3.749 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1427 0.408 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1942 0.555 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 35. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74769H04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3040 3.432 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1787 0.470 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1321 0.348 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

3523 of 3891

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770K02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5293 3.476 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1615 0.367 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1801 0.409 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 44. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770J06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4679 2.823 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2248 0.432 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2103 0.404 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 52. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74786J09 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2996 3.170 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1675 0.409 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1224 0.299 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74792L07 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3941 3.319 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1850 0.440 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1598 0.380 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74807H06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1920 3.612 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0989 0.300 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1366 0.414 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74811M03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3383 3.264 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1807 0.441 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1366 0.333 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74817M06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3909 3.660 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1581 0.416 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1766 0.465 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 38. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74822H01 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4462 3.909 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1560 0.422 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1336 0.361 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74827K06 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4009 4.378 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0933 0.292 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1036 0.324 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 32. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74832G08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3810 4.185 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1016 0.308 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1138 0.345 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 33. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74833K04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3480 3.288 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1485 0.362 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1471 0.359 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836L03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4539 3.546 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1401 0.342 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1190 0.290 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 41. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836K08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4973 3.565 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2000 0.476 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.2001 0.476 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853K05 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2976 4.634 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0862 0.308 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.0792 0.283 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 28. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853L03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4104 3.526 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1364 0.341 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1298 0.325 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 40. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74857I02 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/19/02 DATE OF DEATH: 05/19/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2829 3.467 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1261 0.341 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1416 0.383 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 37. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74860H04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2741 3.539 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1405 0.390 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1600 0.444 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 36. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74862M03 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4875 2.975 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2917 0.583 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1546 0.309 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 50. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74866P08 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4362 4.224 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1258 0.370 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1353 0.398 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 34. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74870C04 GROUP 4: 2500 PPM MALE SCHEDULED EUTH 05/16/02 DATE OF DEATH: 05/16/02 STUDY DAY: 27  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4380 3.424 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1640 0.390 EPIDIDYIMIDES ESOPHAGUS EYES HEART  
THYMUS GLAND 0.1777 0.423 KIDNEYS LIVER LYMPH NODE, MES LUNGS  
FINAL BODY WT(G) 42. MAMMARY GLAND PANCREAS PITUITARY PROSTATE  
SALIVARY GLANDS SEMINAL VESICLES SKIN SPLEEN  
STOMACH TESTES THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74737J08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3528 3.006 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1536 0.341 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1837 0.408 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 45. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74759I11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3613 3.241 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1703 0.405 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1416 0.337 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74764J14 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4493 2.899 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2290 0.458 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2172 0.434 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 50. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74767P07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2977 3.817 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1455 0.428 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1561 0.459 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74767J05 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3406 2.852 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2399 0.510 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1818 0.387 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 47. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74772I10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2814 3.203 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1541 0.385 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1700 0.425 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773005 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/20/02 DATE OF DEATH: 05/20/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2821 3.561 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1483 0.412 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1151 0.320 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 36. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74773H09 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4655 3.186 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2434 0.529 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2400 0.522 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 46. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789J10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4165 3.219 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1569 0.357 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1847 0.420 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 44. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74789I10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4054 3.055 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2487 0.541 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1938 0.421 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 46. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804K08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/22/02 DATE OF DEATH: 05/22/02 STUDY DAY: 33  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2398 4.133 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1117 0.372 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1261 0.420 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 30. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74804H13 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3113 3.544 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1557 0.421 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1662 0.449 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808M11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2304 4.101 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1002 0.334 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1375 0.458 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 30. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74808K16 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4107 3.441 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1884 0.460 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1664 0.406 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74810P07 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4003 2.801 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2262 0.452 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1879 0.376 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 50. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74826H15 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3692 2.853 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2060 0.429 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2628 0.548 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 48. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74829K10 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3967 2.850 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2410 0.492 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2115 0.432 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 49. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74840C04 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/18/02 DATE OF DEATH: 05/18/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4658 2.403 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.3265 0.535 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2173 0.356 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 61. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74841L08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3442 3.841 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1497 0.428 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1501 0.429 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74844G08 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3485 3.371 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1673 0.418 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1645 0.411 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74845G11 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3857 3.464 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2122 0.530 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1748 0.437 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74867G04 GROUP 1: 0 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4146 3.144 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2153 0.478 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1618 0.360 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 45. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74742R07 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3771 3.935 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0897 0.256 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1435 0.410 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74746J15 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3248 3.581 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1592 0.430 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1225 0.331 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74753L16 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2836 3.378 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1479 0.389 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1666 0.438 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74761L05 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1720 4.186 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0861 0.307 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1282 0.458 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 28. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74762K12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3704 3.704 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1365 0.369 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1366 0.369 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74782I09 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1688 5.082 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0684 0.297 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0807 0.351 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 23. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74785H10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3166 4.247 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1176 0.379 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1501 0.484 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 31. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790013 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3411 3.271 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1711 0.417 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1823 0.445 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74790N11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3047 3.954 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1165 0.353 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1597 0.484 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74796016 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3041 3.726 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1614 0.461 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1813 0.518 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798M09 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3596 4.120 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1359 0.412 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1469 0.445 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74798L10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3448 3.362 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1476 0.369 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1805 0.451 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74802J12 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/18/02 DATE OF DEATH: 05/18/02 STUDY DAY: 29  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2739 3.860 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1224 0.371 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1287 0.390 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74809H10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3289 3.241 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1575 0.384 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2442 0.596 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74816L14 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2864 3.675 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1337 0.382 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1366 0.390 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74819J13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2695 2.701 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2199 0.468 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2026 0.431 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 47. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74823L10 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4227 3.309 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2137 0.497 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1945 0.452 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 43. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74835G13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4156 3.370 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1855 0.442 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1897 0.452 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74838K11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4567 3.099 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2662 0.566 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2259 0.481 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 47. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74846G13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/15/02 DATE OF DEATH: 05/15/02 STUDY DAY: 26  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3533 2.942 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2099 0.456 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2128 0.463 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 46. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74856011 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3699 3.605 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1488 0.392 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1587 0.418 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859I11 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2513 3.910 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1311 0.410 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1626 0.508 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 32. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74859L13 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3231 4.268 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1070 0.345 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1416 0.457 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 31. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74869D16 GROUP 2: 500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2513 4.036 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1204 0.388 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1134 0.366 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 31. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738G10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2395 3.873 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1088 0.340 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1103 0.345 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 32. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74738L08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2832 3.888 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1348 0.408 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1146 0.347 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74743H11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3677 3.256 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2460 0.586 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1513 0.360 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74748K14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/16/02 DATE OF DEATH: 05/16/02 STUDY DAY: 27  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1263 3.884 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0964 0.332 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0973 0.336 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 29. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74752J11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.5517 3.785 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2114 0.516 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1940 0.473 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74780D10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3645 3.411 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1298 0.325 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1681 0.420 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74791M12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2844 3.778 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1243 0.366 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1397 0.411 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74793N10 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4368 3.592 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1413 0.353 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1707 0.427 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 40. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74799N15 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3325 3.919 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1078 0.317 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1563 0.460 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74806K08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3774 3.280 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1775 0.423 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1797 0.428 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74820L08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3403 3.622 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1326 0.358 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1470 0.397 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821I08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3866 3.555 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1479 0.379 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1523 0.391 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 39. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74821G13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2926 3.693 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1262 0.361 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1674 0.478 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74831L16 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3170 4.116 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1005 0.314 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1546 0.483 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 32. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74834G07 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3638 3.589 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1089 0.287 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1222 0.322 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74847I13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4062 2.930 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2462 0.513 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2263 0.471 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 48. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74848D14 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3626 3.586 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1138 0.299 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1284 0.338 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74849G13 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1670 5.074 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0783 0.340 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0799 0.347 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 23. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850K12 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1678 3.435 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0972 0.286 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1193 0.351 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74850N11 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/19/02 DATE OF DEATH: 05/19/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3018 3.616 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1548 0.430 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0909 0.253 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 36. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74855K08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2813 3.372 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1570 0.413 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1987 0.523 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74868T08 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1508 4.110 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0960 0.343 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2020 0.721 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 28. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74871I09 GROUP 3: 1000 PPM FEMALE SCHEDULED EUTH 05/20/02 DATE OF DEATH: 05/20/02 STUDY DAY: 31  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2677 3.729 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1383 0.407 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1673 0.492 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74751M14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3961 3.878 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1705 0.474 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1746 0.485 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 36. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74754012 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3513 3.217 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1969 0.469 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1695 0.404 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 42. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74768K09 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3456 4.078 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1446 0.438 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2138 0.648 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74769H09 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4566 3.937 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2064 0.558 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1360 0.368 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770K15 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4358 3.339 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1553 0.361 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1449 0.337 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 43. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74770J14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. KIDNEYS GROSS: DILATED PELVIS 3  
BRAIN 1.4535 3.230 RIGHT  
SPLEEN 0.2127 0.473 NO SIGNIFICANT  
THYMUS GLAND 0.1949 0.433 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
FINAL BODY WT(G) 45. ESOPHAGUS EYES HEART LIVER  
LYMPH NODE, MES LUNGS MAMMARY GLAND OVARIES  
PANCREAS PITUITARY SALIVARY GLANDS SKIN  
SPLEEN STOMACH THYMUS GLAND THYROID GLANDS  
TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74786J18 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3227 3.481 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1275 0.336 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1037 0.273 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 38. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74792L08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4180 3.459 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2073 0.506 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1696 0.414 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 41. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74807H11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3384 4.056 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0990 0.300 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1382 0.419 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74811M08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2667 3.248 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1520 0.390 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1296 0.332 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 39. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74817M08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2985 3.935 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2092 0.634 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1837 0.557 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74822H10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4626 3.953 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1342 0.363 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1616 0.437 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74827K07 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/13/02 DATE OF DEATH: 05/13/02 STUDY DAY: 24  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1672 3.335 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1035 0.296 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1358 0.388 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74832G10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/17/02 DATE OF DEATH: 05/17/02 STUDY DAY: 28  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2831 4.583 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0849 0.303 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0837 0.299 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 28. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74833K14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3083 3.536 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1845 0.499 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1583 0.428 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836L08 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/12/02 DATE OF DEATH: 05/12/02 STUDY DAY: 23  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3739 3.523 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1671 0.428 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1761 0.452 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 39. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74836K14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4276 3.858 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1854 0.501 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1553 0.420 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 37. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853K14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.1559 4.281 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.0788 0.292 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.0849 0.314 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 27. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74853L05 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.4599 4.171 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1032 0.295 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1156 0.330 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 35. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74857I09 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/19/02 DATE OF DEATH: 05/19/02 STUDY DAY: 30  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.2590 3.815 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1616 0.490 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1180 0.358 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 33. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74860H13 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3014 3.828 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1226 0.361 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1490 0.438 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74862M14 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/14/02 DATE OF DEATH: 05/14/02 STUDY DAY: 25  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3653 3.175 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.2364 0.550 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1429 0.332 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 43. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74866P11 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/11/02 DATE OF DEATH: 05/11/02 STUDY DAY: 22  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3881 4.083 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1485 0.437 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.1532 0.451 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 34. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 231 (F2 - PND 21 WEANLINGS SELECTED FOR ORGAN WEIGHTS)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL MACROSCOPIC FINDINGS

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ANIMAL NO.74870C10 GROUP 4: 2500 PPM FEMALE SCHEDULED EUTH 05/16/02 DATE OF DEATH: 05/16/02 STUDY DAY: 27  
GRADE

-----  
ORGAN WEIGHT ABS.(G) REL. NO SIGNIFICANT  
BRAIN 1.3412 3.119 CHANGES OBSERVED GROSS:ADRENAL GLANDS SPINAL CORD BRAIN INTESTINE  
SPLEEN 0.1317 0.306 ESOPHAGUS EYES HEART KIDNEYS  
THYMUS GLAND 0.2012 0.468 LIVER LYMPH NODE, MES LUNGS MAMMARY GLAND  
FINAL BODY WT(G) 43. OVARIES PANCREAS PITUITARY SALIVARY GLANDS  
SKIN SPLEEN STOMACH THYMUS GLAND  
THYROID GLANDS TRACHEA URINARY BLADDER UTERUS

GROSS GRADE CODE: 1-SLIGHT, 2-MODERATE, 3-MARKED, P-PRESENT

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R:10/04/2002

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 1

MALE GROUP: 0 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737J01	48.	1.4148	0.1972	0.2097
74759I08	46.	1.3731	0.2557	0.1322
74764J05	53.	1.4417	0.2343	0.2025
74767P03	39.	1.2750	0.1690	0.1622
74767J02	52.	1.4379	0.2593	0.1850
74772I02	45.	1.3436	0.1696	0.1396
74773O01	31.	1.1656	0.1234	0.1248
74773H04	51.	1.5028	0.2017	0.1741
74789J05	42.	1.4655	0.1491	0.1533
74789I04	44.	1.4689	0.1671	0.1755
74804K04	30.	1.3003	0.0980	0.1219
74804H06	38.	1.3968	0.1142	0.1285
74808M01	32.	1.3133	0.1157	0.1178
74808K06	50.	1.4462	0.2451	0.2027
74810P01	50.	1.3929	0.2406	0.1801
74826H08	42.	1.4421	0.1740	0.2203
74829K02	46.	1.4193	0.1943	0.1955
74840C02	53.	1.4453	0.1934	0.1681
74841L04	34.	1.4331	0.1302	0.1259
74844G05	42.	1.3912	0.1715	0.1651
74845G02	46.	1.5097	0.1862	0.2103
74867G01	47.	1.3924	0.2025	0.1971
MEAN	44.	1.3987	0.1815	0.1678
S.D.	7.1	0.08004	0.04724	0.03308
N	22	22	22	22

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FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 2

MALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742R04	35.	1.3667	0.1571	0.1621
74746J09	37.	1.3526	0.1537	0.1241
74753L06	32.	1.3464	0.1141	0.1262
74761L01	29.	1.3354	0.1109	0.1033
74762K01	33.	1.3517	0.1189	0.1397
74782I04	19.	1.1220	0.0433	0.0661
74785H07	31.	1.2572	0.1003	0.1168
74790O04	38.	1.3162	0.1652	0.1625
74790N01	38.	1.4153	0.1401	0.1448
74796O02	34.	1.2653	0.1322	0.1339
74798M03	46.	1.3636	0.1847	0.1484
74798L04	44.	1.4827	0.1691	0.1494
74802J05	35.	1.2906	0.1143	0.1576
74809H02	41.	1.4330	0.1429	0.2017
74816L02	37.	1.3734	0.1300	0.1161
74819J07	43.	1.4330	0.1668	0.1804
74823L05	45.	1.4136	0.1949	0.1845
74835G05	42.	1.4760	0.1821	0.1659
74838K04	52.	1.4261	0.2716	0.1974
74846G03	48.	1.4506	0.2015	0.2180
74856O03	37.	1.4518	0.1746	0.2385
74859I01	33.	1.3421	0.1714	0.1216
74859L05	30.	1.3371	0.0979	0.1543
74869D05	33.	1.2756	0.1404	0.1215
MEAN	37.	1.3616	0.1491	0.1515
S.D.	7.2	0.08290	0.04485	0.03889
N	24	24	24	24

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 3

MALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738G02	36.	1.3790	0.1127	0.1204
74738L01	34.	1.3649	0.0987	0.1053
74743H08	47.	1.5020	0.2051	0.2154
74748K03	32.	1.2713	0.1060	0.1007
74752J05	49.	1.5422	0.2526	0.2024
74780D03	34.	1.3132	0.1098	0.1361
74791M03	34.	1.3769	0.1132	0.1459
74793N05	40.	1.3785	0.1349	0.1528
74799N04	35.	1.3768	0.1209	0.1440
74806K01	46.	1.4377	0.2345	0.1702
74820L02	36.	1.4035	0.1206	0.1219
74821I01	39.	1.4589	0.1828	0.1586
74821G04	38.	1.3634	0.1049	0.1485
74831L06	33.	1.3850	0.1257	0.1727
74834G03	26.	1.2286	0.0584	0.0591
74847I04	48.	1.4837	0.2270	0.1628
74848D02	37.	1.3593	0.1081	0.1470
74849G07	23.	1.1568	0.1214	0.0566
74850K02	32.	1.2653	0.1134	0.1371
74850N06	40.	1.3728	0.1632	0.0937
74855K13	34.	1.3168	0.1157	0.1204
74868T05	29.	1.2075	0.1187	0.1037
74871I05	40.	1.3423	0.1362	0.2035
MEAN	37.	1.3603	0.1385	0.1382
S.D.	6.6	0.09329	0.04906	0.04131
N	23	23	23	23

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FBW = FINAL BODY WEIGHT

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74751M07	35.	1.5301	0.1135	0.1742
74754O05	41.	1.3735	0.1872	0.1595
74768K01	35.	1.3123	0.1427	0.1942
74769H04	38.	1.3040	0.1787	0.1321
74770K02	44.	1.5293	0.1615	0.1801
74770J06	52.	1.4679	0.2248	0.2103
74786J09	41.	1.2996	0.1675	0.1224
74792L07	42.	1.3941	0.1850	0.1598
74807H06	33.	1.1920	0.0989	0.1366
74811M03	41.	1.3383	0.1807	0.1366
74817M06	38.	1.3909	0.1581	0.1766
74822H01	37.	1.4462	0.1560	0.1336
74827K06	32.	1.4009	0.0933	0.1036
74832G08	33.	1.3810	0.1016	0.1138
74833K04	41.	1.3480	0.1485	0.1471
74836L03	41.	1.4539	0.1401	0.1190
74836K08	42.	1.4973	0.2000	0.2001
74853K05	28.	1.2976	0.0862	0.0792
74853L03	40.	1.4104	0.1364	0.1298
74857I02	37.	1.2829	0.1261	0.1416
74860H04	36.	1.2741	0.1405	0.1600
74862M03	50.	1.4875	0.2917	0.1546
74866P08	34.	1.4362	0.1258	0.1353
74870C04	42.	1.4380	0.1640	0.1777
MEAN	39.	1.3869	0.1545	0.1491
S.D.	5.4	0.08777	0.04566	0.03176
N	24	24	24	24

FBW = FINAL BODY WEIGHT

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FEMALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737J08	45.	1.3528	0.1536	0.1837
74759I11	42.	1.3613	0.1703	0.1416
74764J14	50.	1.4493	0.2290	0.2172
74767P07	34.	1.2977	0.1455	0.1561
74767J05	47.	1.3406	0.2399	0.1818
74772I10	40.	1.2814	0.1541	0.1700
74773O05	36.	1.2821	0.1483	0.1151
74773H09	46.	1.4655	0.2434	0.2400
74789J10	44.	1.4165	0.1569	0.1847
74789I10	46.	1.4054	0.2487	0.1938
74804K08	30.	1.2398	0.1117	0.1261
74804H13	37.	1.3113	0.1557	0.1662
74808M11	30.	1.2304	0.1002	0.1375
74808K16	41.	1.4107	0.1884	0.1664
74810P07	50.	1.4003	0.2262	0.1879
74826H15	48.	1.3692	0.2060	0.2628
74829K10	49.	1.3967	0.2410	0.2115
74840C04	61.	1.4658	0.3265	0.2173
74841L08	35.	1.3442	0.1497	0.1501
74844G08	40.	1.3485	0.1673	0.1645
74845G11	40.	1.3857	0.2122	0.1748
74867G04	45.	1.4146	0.2153	0.1618
MEAN	43.	1.3623	0.1905	0.1778
S.D.	7.3	0.06735	0.05326	0.03608
N	22	22	22	22

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

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FEMALE GROUP: 500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742R07	35.	1.3771	0.0897	0.1435
74746J15	37.	1.3248	0.1592	0.1225
74753L16	38.	1.2836	0.1479	0.1666
74761L05	28.	1.1720	0.0861	0.1282
74762K12	37.	1.3704	0.1365	0.1366
74782I09	23.	1.1688	0.0684	0.0807
74785H10	31.	1.3166	0.1176	0.1501
74790O13	41.	1.3411	0.1711	0.1823
74790N11	33.	1.3047	0.1165	0.1597
74796O16	35.	1.3041	0.1614	0.1813
74798M09	33.	1.3596	0.1359	0.1469
74798L10	40.	1.3448	0.1476	0.1805
74802J12	33.	1.2739	0.1224	0.1287
74809H10	41.	1.3289	0.1575	0.2442
74816L14	35.	1.2864	0.1337	0.1366
74819J13	47.	1.2695	0.2199	0.2026
74823L10	43.	1.4227	0.2137	0.1945
74835G13	42.	1.4156	0.1855	0.1897
74838K11	47.	1.4567	0.2662	0.2259
74846G13	46.	1.3533	0.2099	0.2128
74856O11	38.	1.3699	0.1488	0.1587
74859I11	32.	1.2513	0.1311	0.1626
74859L13	31.	1.3231	0.1070	0.1416
74869D16	31.	1.2513	0.1204	0.1134
MEAN	37.	1.3196	0.1481	0.1621
S.D.	6.1	0.06989	0.04614	0.03803
N	24	24	24	24

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 7

FEMALE GROUP: 1000 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738G10	32.	1.2395	0.1088	0.1103
74738L08	33.	1.2832	0.1348	0.1146
74743H11	42.	1.3677	0.2460	0.1513
74748K14	29.	1.1263	0.0964	0.0973
74752J11	41.	1.5517	0.2114	0.1940
74780D10	40.	1.3645	0.1298	0.1681
74791M12	34.	1.2844	0.1243	0.1397
74793N10	40.	1.4368	0.1413	0.1707
74799N15	34.	1.3325	0.1078	0.1563
74806K08	42.	1.3774	0.1775	0.1797
74820L08	37.	1.3403	0.1326	0.1470
74821I08	39.	1.3866	0.1479	0.1523
74821G13	35.	1.2926	0.1262	0.1674
74831L16	32.	1.3170	0.1005	0.1546
74834G07	38.	1.3638	0.1089	0.1222
74847I13	48.	1.4062	0.2462	0.2263
74848D14	38.	1.3626	0.1138	0.1284
74849G13	23.	1.1670	0.0783	0.0799
74850K12	34.	1.1678	0.0972	0.1193
74850N11	36.	1.3018	0.1548	0.0909
74855K08	38.	1.2813	0.1570	0.1987
74868T08	28.	1.1508	0.0960	0.2020
74871I09	34.	1.2677	0.1383	0.1673
MEAN	36.	1.3117	0.1381	0.1495
S.D.	5.4	0.09923	0.04514	0.03781
N	23	23	23	23

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FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 232 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WEIGHTS AND FINAL BODY WEIGHTS [G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74751M14	36.	1.3961	0.1705	0.1746
74754O12	42.	1.3513	0.1969	0.1695
74768K09	33.	1.3456	0.1446	0.2138
74769H09	37.	1.4566	0.2064	0.1360
74770K15	43.	1.4358	0.1553	0.1449
74770J14	45.	1.4535	0.2127	0.1949
74786J18	38.	1.3227	0.1275	0.1037
74792L08	41.	1.4180	0.2073	0.1696
74807H11	33.	1.3384	0.0990	0.1382
74811M08	39.	1.2667	0.1520	0.1296
74817M08	33.	1.2985	0.2092	0.1837
74822H10	37.	1.4626	0.1342	0.1616
74827K07	35.	1.1672	0.1035	0.1358
74832G10	28.	1.2831	0.0849	0.0837
74833K14	37.	1.3083	0.1845	0.1583
74836L08	39.	1.3739	0.1671	0.1761
74836K14	37.	1.4276	0.1854	0.1553
74853K14	27.	1.1559	0.0788	0.0849
74853L05	35.	1.4599	0.1032	0.1156
74857I09	33.	1.2590	0.1616	0.1180
74860H13	34.	1.3014	0.1226	0.1490
74862M14	43.	1.3653	0.2364	0.1429
74866P11	34.	1.3881	0.1485	0.1532
74870C10	43.	1.3412	0.1317	0.2012
MEAN	37.	1.3490	0.1552	0.1498
S.D.	4.6	0.08539	0.04393	0.03372
N	24	24	24	24

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FBW = FINAL BODY WEIGHT

POFBWv4.12  
 09/25/2002  
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PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 1

MALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737J01	48.	2.948	0.411	0.437
74759I08	46.	2.985	0.556	0.287
74764J05	53.	2.720	0.442	0.382
74767P03	39.	3.269	0.433	0.416
74767J02	52.	2.765	0.499	0.356
74772I02	45.	2.986	0.377	0.310
74773O01	31.	3.760	0.398	0.403
74773H04	51.	2.947	0.395	0.341
74789J05	42.	3.489	0.355	0.365
74789I04	44.	3.338	0.380	0.399
74804K04	30.	4.334	0.327	0.406
74804H06	38.	3.676	0.301	0.338
74808M01	32.	4.104	0.362	0.368
74808K06	50.	2.892	0.490	0.405
74810P01	50.	2.786	0.481	0.360
74826H08	42.	3.434	0.414	0.525
74829K02	46.	3.085	0.422	0.425
74840C02	53.	2.727	0.365	0.317
74841L04	34.	4.215	0.383	0.370
74844G05	42.	3.312	0.408	0.393
74845G02	46.	3.282	0.405	0.457
74867G01	47.	2.963	0.431	0.419
MEAN	44.	3.274	0.411	0.385
S.D.	7.1	0.4847	0.0586	0.0530
N	22	22	22	22

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 2

MALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742R04	35.	3.905	0.449	0.463
74746J09	37.	3.656	0.415	0.335
74753L06	32.	4.208	0.357	0.394
74761L01	29.	4.605	0.382	0.356
74762K01	33.	4.096	0.360	0.423
74782I04	19.	5.905	0.228	0.348
74785H07	31.	4.055	0.324	0.377
74790O04	38.	3.464	0.435	0.428
74790N01	38.	3.724	0.369	0.381
74796O02	34.	3.721	0.389	0.394
74798M03	46.	2.964	0.402	0.323
74798L04	44.	3.370	0.384	0.340
74802J05	35.	3.687	0.327	0.450
74809H02	41.	3.495	0.349	0.492
74816L02	37.	3.712	0.351	0.314
74819J07	43.	3.333	0.388	0.420
74823L05	45.	3.141	0.433	0.410
74835G05	42.	3.514	0.434	0.395
74838K04	52.	2.743	0.522	0.380
74846G03	48.	3.022	0.420	0.454
74856O03	37.	3.924	0.472	0.645
74859I01	33.	4.067	0.519	0.368
74859L05	30.	4.457	0.326	0.514
74869D05	33.	3.865	0.425	0.368
MEAN	37.	3.776	0.394	0.407
S.D.	7.2	0.6433	0.0649	0.0724
N	24	24	24	24

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 3

MALE GROUP: 1000 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738G02	36.	3.831	0.313	0.334
74738L01	34.	4.014	0.290	0.310
74743H08	47.	3.196	0.436	0.458
74748K03	32.	3.973	0.331	0.315
74752J05	49.	3.147	0.516	0.413
74780D03	34.	3.862	0.323	0.400
74791M03	34.	4.050	0.333	0.429
74793N05	40.	3.446	0.337	0.382
74799N04	35.	3.934	0.345	0.411
74806K01	46.	3.125	0.510	0.370
74820L02	36.	3.899	0.335	0.339
74821I01	39.	3.741	0.469	0.407
74821G04	38.	3.588	0.276	0.391
74831L06	33.	4.197	0.381	0.523
74834G03	26.	4.725	0.225	0.227
74847I04	48.	3.091	0.473	0.339
74848D02	37.	3.674	0.292	0.397
74849G07	23.	5.030	0.528	0.246
74850K02	32.	3.954	0.354	0.428
74850N06	40.	3.432	0.408	0.234
74855K13	34.	3.873	0.340	0.354
74868T05	29.	4.164	0.409	0.358
74871I05	40.	3.356	0.341	0.509
MEAN	37.	3.796	0.372	0.373
S.D.	6.6	0.4829	0.0824	0.0765
N	23	23	23	23

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 4

MALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74751M07	35.	4.372	0.324	0.498
74754O05	41.	3.350	0.457	0.389
74768K01	35.	3.749	0.408	0.555
74769H04	38.	3.432	0.470	0.348
74770K02	44.	3.476	0.367	0.409
74770J06	52.	2.823	0.432	0.404
74786J09	41.	3.170	0.409	0.299
74792L07	42.	3.319	0.440	0.380
74807H06	33.	3.612	0.300	0.414
74811M03	41.	3.264	0.441	0.333
74817M06	38.	3.660	0.416	0.465
74822H01	37.	3.909	0.422	0.361
74827K06	32.	4.378	0.292	0.324
74832G08	33.	4.185	0.308	0.345
74833K04	41.	3.288	0.362	0.359
74836L03	41.	3.546	0.342	0.290
74836K08	42.	3.565	0.476	0.476
74853K05	28.	4.634	0.308	0.283
74853L03	40.	3.526	0.341	0.325
74857I02	37.	3.467	0.341	0.383
74860H04	36.	3.539	0.390	0.444
74862M03	50.	2.975	0.583	0.309
74866P08	34.	4.224	0.370	0.398
74870C04	42.	3.424	0.390	0.423
MEAN	39.	3.620	0.391	0.384
S.D.	5.4	0.4545	0.0689	0.0692
N	24	24	24	24

FBW = FINAL BODY WEIGHT

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PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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FEMALE GROUP: 0 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74737J08	45.	3.006	0.341	0.408
74759I11	42.	3.241	0.405	0.337
74764J14	50.	2.899	0.458	0.434
74767P07	34.	3.817	0.428	0.459
74767J05	47.	2.852	0.510	0.387
74772I10	40.	3.203	0.385	0.425
74773O05	36.	3.561	0.412	0.320
74773H09	46.	3.186	0.529	0.522
74789J10	44.	3.219	0.357	0.420
74789I10	46.	3.055	0.541	0.421
74804K08	30.	4.133	0.372	0.420
74804H13	37.	3.544	0.421	0.449
74808M11	30.	4.101	0.334	0.458
74808K16	41.	3.441	0.460	0.406
74810P07	50.	2.801	0.452	0.376
74826H15	48.	2.853	0.429	0.548
74829K10	49.	2.850	0.492	0.432
74840C04	61.	2.403	0.535	0.356
74841L08	35.	3.841	0.428	0.429
74844G08	40.	3.371	0.418	0.411
74845G11	40.	3.464	0.531	0.437
74867G04	45.	3.144	0.478	0.360
MEAN	43.	3.272	0.442	0.419
S.D.	7.3	0.4407	0.0633	0.0532
N	22	22	22	22

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

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FEMALE GROUP: 500 PPM

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ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74742R07	35.	3.935	0.256	0.410
74746J15	37.	3.581	0.430	0.331
74753L16	38.	3.378	0.389	0.438
74761L05	28.	4.186	0.308	0.458
74762K12	37.	3.704	0.369	0.369
74782I09	23.	5.082	0.297	0.351
74785H10	31.	4.247	0.379	0.484
74790O13	41.	3.271	0.417	0.445
74790N11	33.	3.954	0.353	0.484
74796O16	35.	3.726	0.461	0.518
74798M09	33.	4.120	0.412	0.445
74798L10	40.	3.362	0.369	0.451
74802J12	33.	3.860	0.371	0.390
74809H10	41.	3.241	0.384	0.596
74816L14	35.	3.675	0.382	0.390
74819J13	47.	2.701	0.468	0.431
74823L10	43.	3.309	0.497	0.452
74835G13	42.	3.370	0.442	0.452
74838K11	47.	3.099	0.566	0.481
74846G13	46.	2.942	0.456	0.463
74856O11	38.	3.605	0.392	0.418
74859I11	32.	3.910	0.410	0.508
74859L13	31.	4.268	0.345	0.457
74869D16	31.	4.036	0.388	0.366
MEAN	37.	3.690	0.398	0.441
S.D.	6.1	0.5140	0.0662	0.0586
N	24	24	24	24

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
 SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 7

FEMALE GROUP: 1000 PPM

3651 of 3891

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74738G10	32.	3.873	0.340	0.345
74738L08	33.	3.888	0.408	0.347
74743H11	42.	3.256	0.586	0.360
74748K14	29.	3.884	0.332	0.336
74752J11	41.	3.785	0.516	0.473
74780D10	40.	3.411	0.325	0.420
74791M12	34.	3.778	0.366	0.411
74793N10	40.	3.592	0.353	0.427
74799N15	34.	3.919	0.317	0.460
74806K08	42.	3.280	0.423	0.428
74820L08	37.	3.622	0.358	0.397
74821I08	39.	3.555	0.379	0.391
74821G13	35.	3.693	0.361	0.478
74831L16	32.	4.116	0.314	0.483
74834G07	38.	3.589	0.287	0.322
74847I13	48.	2.930	0.513	0.471
74848D14	38.	3.586	0.299	0.338
74849G13	23.	5.074	0.340	0.347
74850K12	34.	3.435	0.286	0.351
74850N11	36.	3.616	0.430	0.253
74855K08	38.	3.372	0.413	0.523
74868T08	28.	4.110	0.343	0.721
74871I09	34.	3.729	0.407	0.492
MEAN	36.	3.700	0.378	0.416
S.D.	5.4	0.4095	0.0767	0.0948
N	23	23	23	23

FBW = FINAL BODY WEIGHT

PROJECT NO.:WIL-186013S  
SPONSOR:ACC

TABLE 233 (F2 - PND 21)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
INDIVIDUAL ORGAN WTS. RELATIVE TO FINAL BODY WTS. [G/100 G]

PAGE 8

FEMALE GROUP: 2500 PPM

ANIMAL	FBW(G)	BRAIN	SPLEEN	THYMUS GLAND
74751M14	36.	3.878	0.474	0.485
74754O12	42.	3.217	0.469	0.404
74768K09	33.	4.078	0.438	0.648
74769H09	37.	3.937	0.558	0.368
74770K15	43.	3.339	0.361	0.337
74770J14	45.	3.230	0.473	0.433
74786J18	38.	3.481	0.336	0.273
74792L08	41.	3.459	0.506	0.414
74807H11	33.	4.056	0.300	0.419
74811M08	39.	3.248	0.390	0.332
74817M08	33.	3.935	0.634	0.557
74822H10	37.	3.953	0.363	0.437
74827K07	35.	3.335	0.296	0.388
74832G10	28.	4.583	0.303	0.299
74833K14	37.	3.536	0.499	0.428
74836L08	39.	3.523	0.428	0.452
74836K14	37.	3.858	0.501	0.420
74853K14	27.	4.281	0.292	0.314
74853L05	35.	4.171	0.295	0.330
74857I09	33.	3.815	0.490	0.358
74860H13	34.	3.828	0.361	0.438
74862M14	43.	3.175	0.550	0.332
74866P11	34.	4.083	0.437	0.451
74870C10	43.	3.119	0.306	0.468
MEAN	37.	3.713	0.419	0.408
S.D.	4.6	0.4018	0.0983	0.0840
N	24	24	24	24

FBW = FINAL BODY WEIGHT

POFBWv4.12  
09/25/2002  
R:09/25/2002

3652 of 3891

**FINAL REPORT**

Volume 10 of 10  
(Appendices A-F)

**STUDY TITLE**

AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS

**STUDY NUMBER**

WIL-186013

**TEST GUIDELINE**

OPPTS Guideline 870.3800

**STUDY DIRECTOR**

Mark D. Nemec, B.S., D.A.B.T.

**STUDY INITIATION DATE**

August 27, 2001

**STUDY COMPLETION DATE**

November 13, 2003

**PERFORMING LABORATORY**

WIL Research Laboratories, Inc.  
1407 George Road  
Ashland, OH 44805-9281

**SPONSOR**

Oxo Process Panel  
of the American Chemistry Council  
1300 Wilson Boulevard  
Arlington, VA 22209

## **APPENDIX A**

### Test Article Characterization (Sponsor-Provided Data)

BUSINESS CONFIDENTIAL

PROJECT REPORT

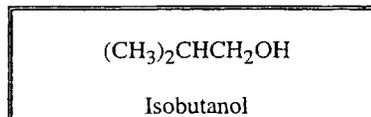
ISOBUTANOL

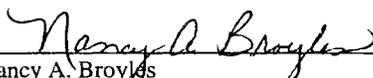
GLP ANALYTICAL CHARACTERIZATION - FINAL REPORT

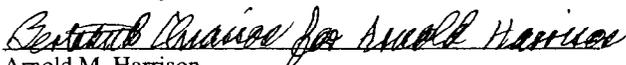
**AUTHORS:** N. A. Broyles  
A. M. Harrison  
L. K. Martin  
**DATE:** August 8, 2002  
**STUDY #:** 2000-GLP-05-NB  
**SUPERVISORS:** B. A. Chiasson  
**FILE NO:** SC AL-2002-008

**SUMMARY** Isobutanol was analyzed to provide analytical data for toxicology studies conducted at WIL Research Laboratories, Inc. The analyses were performed in compliance with the U. S. EPA TSCA Good Laboratory Practice (GLP) Standards: 40 CFR 792. Gas chromatography/mass spectrometry (GC/MS) and nuclear magnetic resonance (NMR) spectroscopy techniques were independently used to confirm the sample's identity. Sample purity, measured by capillary GC, was 99.9 % for both the prestudy (2000-GLP-05-NB) and poststudy (2000-GLP-05-NBR) samples. This indicates that the sample remained stable over the course of the toxicity studies. These samples were received from WIL Research Laboratories, Inc., located in Ashland.

Shown at right is the structure of isobutanol. Its Chemical Abstracts Service Registry number (CAS #) is 78-83-1.



  
\_\_\_\_\_  
Nancy A. Broyles

  
\_\_\_\_\_  
Arnold M. Harrison

  
\_\_\_\_\_  
Linette K. Martin

NAB/AMH/LKM  
Date Study initiated: December 14, 2000  
Attachments: 1 GLP Analytical Characterization Report  
Manuscript Date: February 8, 2001

**KEY WORDS:** 78-83-1

UNION CARBIDE CORPORATION  
A SUBSIDIARY OF THE DOW CHEMICAL COMPANY  
SOUTH CHARLESTON, WEST VIRGINIA

**BUSINESS CONFIDENTIAL**

**PROJECT REPORT**

**DISTRIBUTION**

W. D. Anderson	American Chemistry Council
D. L. Johnson	770-417
M. A. Patel	701-330
W. M. Snellings	Danbury, K3-474
I. E. Treble	Loc. 312*
Midland CRI	Midland, Bldg. 566

NOTE: Asterisk indicates summary only.

STUDY TITLE

Isobutanol - Analytical Characterization

DATA REQUIREMENT

Not Applicable

STUDY DIRECTOR (Author)

Nancy A. Broyles

STUDY COMPLETED ON

September 30, 2002

PERFORMING LABORATORY

Union Carbide Corporation (UCC)  
A Subsidiary of The Dow Chemical Company  
P. O. Box 8361  
South Charleston, West Virginia 25303

UCC R/D LABORATORY PROJECT ID

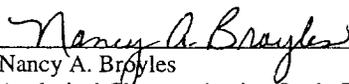
Study # 2000-GLP-05-NB

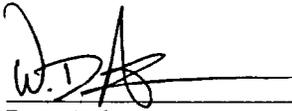
SPONSOR COMPANY

American Chemistry Council  
1300 Wilson Boulevard  
Arlington, Virginia 22209

GLP COMPLIANCE STATEMENT

To the best of the sponsor's knowledge, information, and belief, the isobutanol study described by this report was conducted in compliance with the U. S. EPA TSCA Good Laboratory Practice (GLP) Standards: 40 CFR 792.

 9/30/2002  
Date  
Nancy A. Brayles  
Analytical Characterization Study Director  
Union Carbide Corporation  
A Subsidiary of The Dow Chemical Company

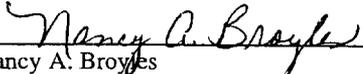
 10/01/2002  
Date  
Doug Anderson  
Sponsor's Representative  
American Chemistry Council

SIGNATURE PAGE

Submitted by: Union Carbide Corporation (UCC)  
A Subsidiary of The Dow Chemical Company  
P.O. Box 8361  
South Charleston, West Virginia 25303

Study Supervisor: Bertrand A. Chiasson

Report Prepared by:

  
\_\_\_\_\_  
Nancy A. Broyles  
Analytical Characterization Study Director  
Technical Center, South Charleston, WV

9/30/2002  
Date

  
\_\_\_\_\_  
Arnold M. Harrison  
NMR Skill Area Specialist  
Technical Center, South Charleston, WV

9-30-02  
Date

  
\_\_\_\_\_  
Linette K. Martin  
GC/MS Skill Area Specialist  
Technical Center, South Charleston, WV

9-30-02  
Date

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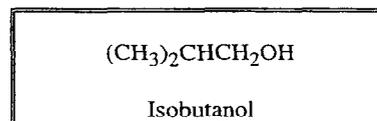
## Isobutanol- Analytical Characterization

**ABSTRACT** Isobutanol was analyzed to provide analytical data for toxicology studies conducted at WIL Research Laboratories, Inc. The analyses were performed in compliance with the U. S. EPA TSCA Good Laboratory Practice (GLP) Standards: 40 CFR 792. Gas chromatography/mass spectrometry (GC/MS) and nuclear magnetic resonance (NMR) spectroscopy techniques were independently used to confirm the sample's identity. Sample purity, measured by capillary GC, was 99.9 % for both the prestudy (2000-GLP-05-NB) and poststudy (2000-GLP-05-NBR) samples. This indicates that the sample remained stable over the course of the toxicity studies. These samples were received from WIL Research Laboratories, Inc.

**INTRODUCTION** The American Chemistry Council (ACC) requested that WIL Research Laboratories, Inc. conduct toxicology studies on isobutanol in accordance with the GLP standards established by the EPA under TSCA. This report documents the results of the analytical characterization study (2000-GLP-05-NB) that was conducted in accordance with UCC GLP Standard Operating Procedures (SOPs) to verify the identity, purity, and stability of this lot of isobutanol.

The prestudy and poststudy samples were received from WIL Research Laboratories, Inc., located in Ashland, Ohio. The isobutanol used in this study was a subsample of a sample taken from UCC's Texas City Plant located in Texas City, Texas (Batch No. 15867). On November 30, 2000, the prestudy sample of isobutanol (2000-GLP-05-NB) was received in a 40-mL amber glass vial that contained  $\approx$  14 grams of material. This prestudy sample was used for analytical characterization testing as described in the GLP protocol prepared December 13, 2000 (Appendix I). The protocol called for structural identification by NMR and GC/MS and purity by capillary GC. A protocol amendment (Appendix II) was prepared on November 26, 2001 to document the addition of a second batch of isobutanol (Batch No. 15874) for characterization and to change the sponsor's representative. Since the toxicology lab was able to complete their studies using the original batch of isobutanol, the poststudy sample for this second batch was not submitted for analysis. The prestudy results for this second batch of isobutanol (2000-GLP-05-NB1) are documented in the raw data file, but are not presented in this report. On June 27, 2002, the poststudy sample of the original batch of isobutanol (2000-GLP-05-NBR) was received in a 4-dram amber glass bottle that contained  $\approx$  15 grams of material. This poststudy sample was used for stability testing and was analyzed for purity only using capillary GC.

Shown at right is the structure of isobutanol. Its Chemical Abstracts Service Registry number (CAS #) is 78-83-1.



**DISCUSSION** The data from the analyses are summarized below.

**NMR Analyses** Proton and carbon NMR data were collected in the UCC NMR Skill Center using a General Electric GN-300NB spectrometer. The acquisition parameters are shown in the figures; for the  $^1\text{H}$  NMR spectrum, the pulses used correspond to  $<3^\circ$  flip angles; the  $^{13}\text{C}$  flip angles were  $30^\circ$ ; the  $^{13}\text{C}\{^1\text{H}\}$  (proton decoupled  $^{13}\text{C}$ ) spectrum used Waltz 16 modulation for  $^1\text{H}$  decoupling. The spectra were not acquired under quantitative conditions; the acquisition conditions were established to identify the major component and to look for any substantial impurities. A 25 weight % solution of isobutanol was prepared by dissolving the sample in a premixed solution of deuteriochloroform ( $\text{CDCl}_3$ ; 99.8% purity) and 0.05% tetramethylsilane (TMS) purchased from Isotec, Incorporated, (Lot No. IG1939). The TMS was used as an internal chemical shift reference and the  $\text{CDCl}_3$  triplet in the  $^{13}\text{C}$  NMR spectrum was used as a secondary chemical shift reference (77 ppm).

Figure 1 shows the  $^1\text{H}$  NMR spectrum obtained from the prestudy sample 2000-GLP-05-NB. The observed chemical shifts and relative intensities are appropriate for isobutanol: the hydroxyl hydrogen is seen as a triplet at 4.3 ppm; the methylene hydrogens are seen as a doublet of doublets centered at 3.33 ppm; the methine hydrogen is seen as a nine-line pattern centered at 1.74 ppm; the methyl hydrogens are seen as a doublet at 0.90 ppm.  $^{13}\text{C}$ -satellites are seen as small lines around the methyl and methylene doublets. The 7.4 and 0.0 ppm peaks are due to residual protons in the  $\text{CDCl}_3$  solvent and the TMS, respectively. The minor peak at 3.6 ppm may be due to a small water impurity.

Figure 2 shows the  $^{13}\text{C}\{^1\text{H}\}$  NMR spectrum for the same sample as Figure 1. No unusual or unexpected resonances are seen. The expected solvent 1:1:1 triplet appears at 77.0 ppm and was used as a secondary chemical shift reference. Three resonances are seen corresponding to the three types of carbon present in isobutanol: the methylene carbon at 68.9 ppm, the methine carbon at 30.4 ppm, and the methyl carbons at 18.6 ppm. The NMR spectra are totally consistent with the sample being isobutanol which contains no major organic impurities.

**GC/MS Analysis** Electron ionization (EI) and isobutane reagent gas chemical ionization (CI) mass spectral data were collected in the UCC Mass Spectrometry Skill Center using a Finnigan TSQ<sup>®</sup>-7000 mass spectrometer interfaced to a ThermoQuest TRACE<sup>™</sup> 2000 Series gas chromatograph. The purpose of the GC/MS analysis was to verify the identification of the major GC component as isobutanol and to identify other GC components present in concentrations of at least 0.1 area %. The prestudy sample, 2000-GLP-05-NB, was analyzed in the EI mode by injecting a 0.3  $\mu\text{L}$  aliquot (split 33:1) onto a 30m CP-Sil-5-CB MS capillary column held at 60°C for 4 minutes, then programmed at 12°C/minute to 250°C and held for 15 minutes. The sample was analyzed in the CI mode under the same conditions except that a 0.5  $\mu\text{L}$  aliquot was used. The sample was scanned from m/z 10 to m/z 310 in the EI mode, and from m/z 60 to m/z 360 in the CI mode. A methanol blank was analyzed (EI mode only) prior to sample analysis.

The EI total ion current chromatogram for the prestudy sample is shown in Figure 3. Identifications annotated on the chromatogram are based on the EI and CI spectra of the components. Both the EI and CI spectra of the major component are consistent with isobutanol (2-methyl-1-propanol, MW = 74,  $\text{C}_4\text{H}_{10}\text{O}$ ). No other components were detected in concentrations  $\geq 0.1$  area % by GC analysis. Reference spectra for the identified component were obtained from the National Institute of Standards and Technology (NIST) mass spectral library included in the GC/MS instrument software.

**Capillary GC Analysis** The prestudy and poststudy samples were analyzed to determine the area % purity of the GC components (see Figures 4 and 5). The samples were analyzed on a Hewlett-Packard 5890A gas chromatograph equipped with a DB-1 capillary column. Pre-use inspections and QA/QC checks (flow rate check and system blank) were performed prior to sample analysis. The samples were analyzed by injecting 1.0  $\mu\text{L}$  aliquots (split 100:1) onto the GC column using a HP 7673A autosampler. The column temperature was held at 60°C for 4 minutes, then programmed at a rate of 12°C/minute to 250°C and held for 15 minutes. Triplicate analyses of the prestudy and poststudy samples were performed and the average area % purity for all GC components detected at a concentration  $\geq 0.1$  area % are reported in the Table below.

Component name:	Retention time, min.	Prestudy Sample 2000-GLP-05-NB (Analyzed 12/19/00)		Poststudy Sample 2000-GLP-05-NBR (Analyzed 7/30/02)	
		area %	% RSD	area %	% RSD
Isobutanol	$\approx 3.0$	99.9	0.0018	99.9	0.0021

The GC peaks were identified using the GC/MS data. The GC data are considered acceptable since the precision for the triplicate analyses is  $\leq 2$  % relative standard deviation (RSD) for the main GC component; the GC and GC/MS chromatograms are comparable; and the average area % purity agrees with the 99.9 % purity listed on the certificate of analysis dated September 5, 2000.

**CONCLUSION** NMR spectral data and mass spectral fragmentation data from the UCC Skill Centers show that this sample is isobutanol. These independent methods satisfy the analytical requirements for structural identification as defined in the protocol. Sample purity, measured by capillary GC, was 99.9 % for both the prestudy (2000-GLP-05-NB) and poststudy (2000-GLP-05-NBR) samples. This indicates that the sample remained stable over the course of the toxicity studies.

**ARCHIVES** All original copies of the raw data, records, protocols, and final reports will be archived at UCC, South Charleston, WV, in accordance with GLPs. The Sponsor intends to transfer the data and records to the Archives Center, La Porte Road, Morrisville, VT, and such transfer will be documented appropriately in the archive records at South Charleston, WV, and Morrisville, VT.

**ACKNOWLEDGMENTS** We would like to thank Susanne Chambers for sample handling and collecting the GC data, Charlie Warner for collecting the GC/MS data, and Kathy Canterbury for collecting the NMR data.



Figure 2 - <sup>13</sup>C NMR Spectrum of 2000-GLP-05-NB (Isobutanol Prestudy Sample)

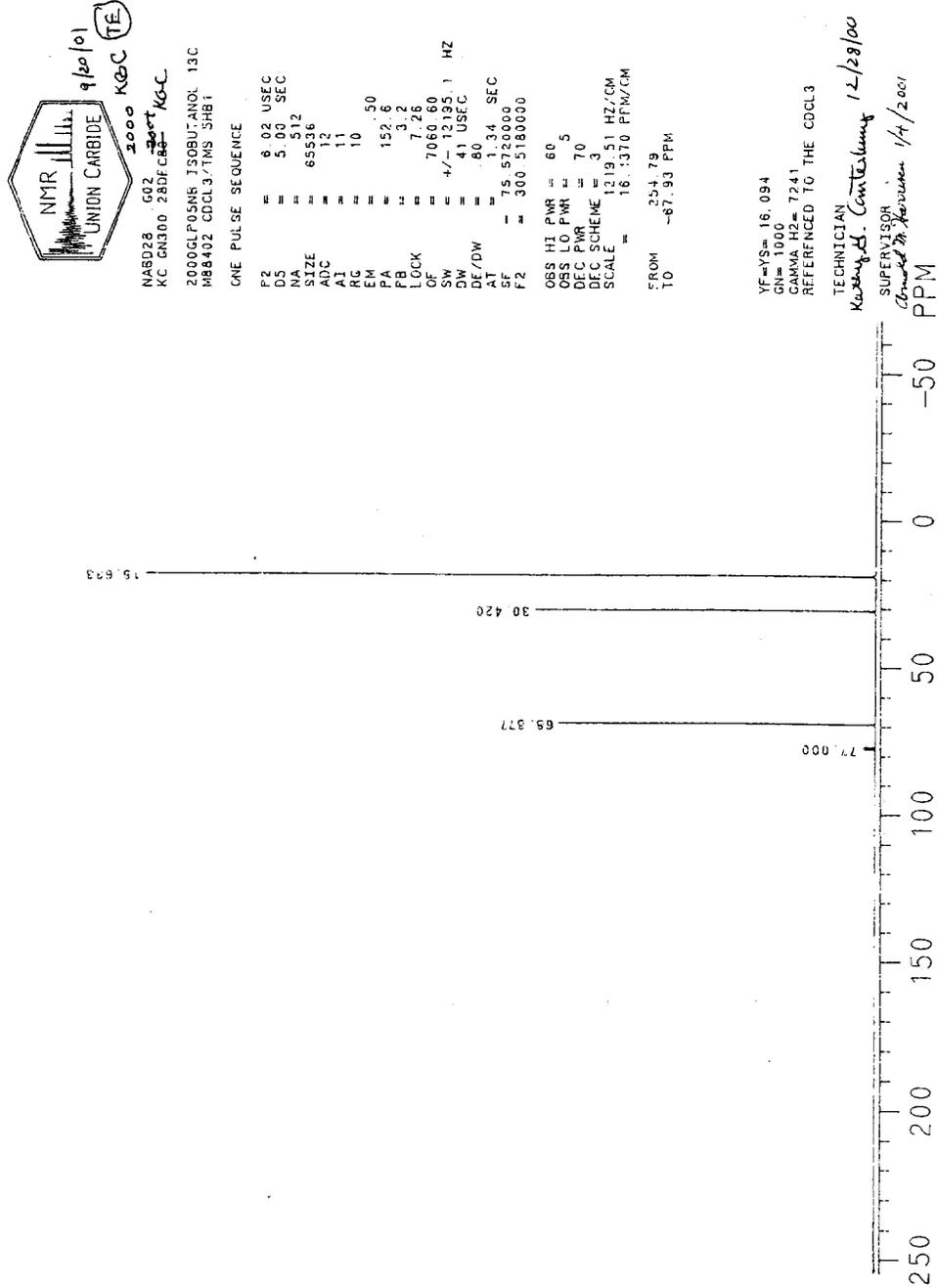


Figure 3 - Capillary GC/MS of 2000-GLP-05-NB (Isobutanol Prestudy Sample)

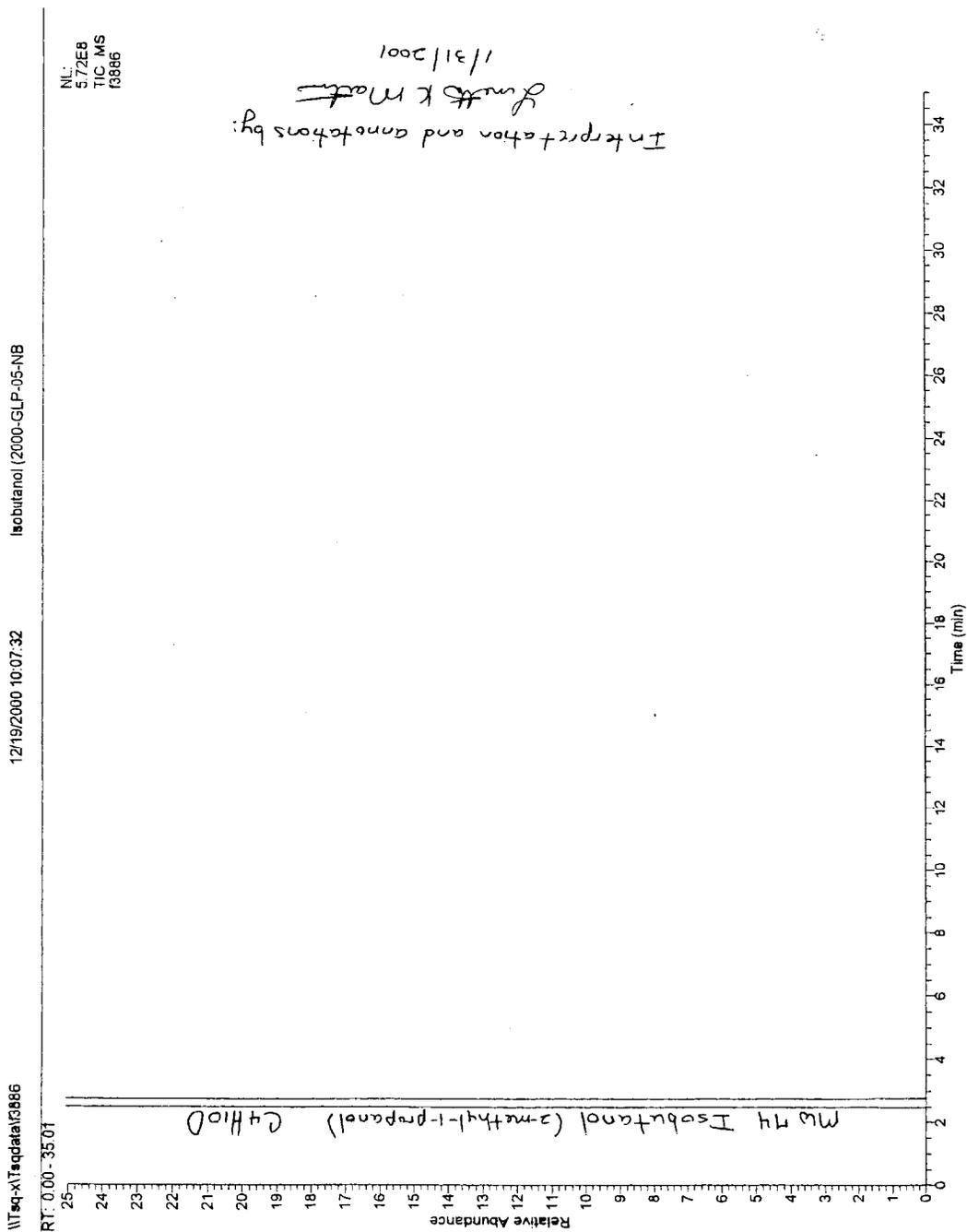


Figure 4 - Capillary GC of 2000-GLP-05-NB (Isobutanol Prestudy Sample)

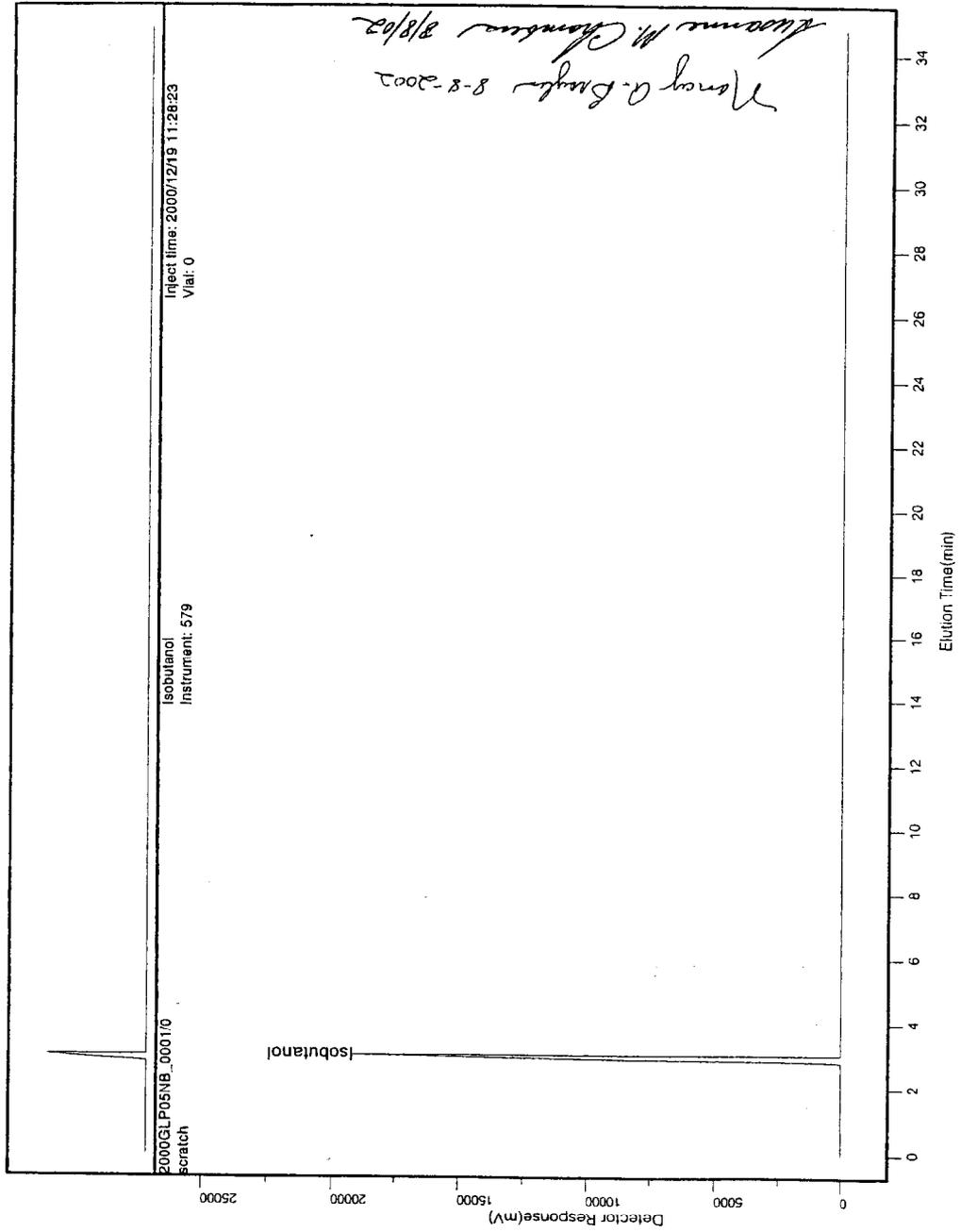
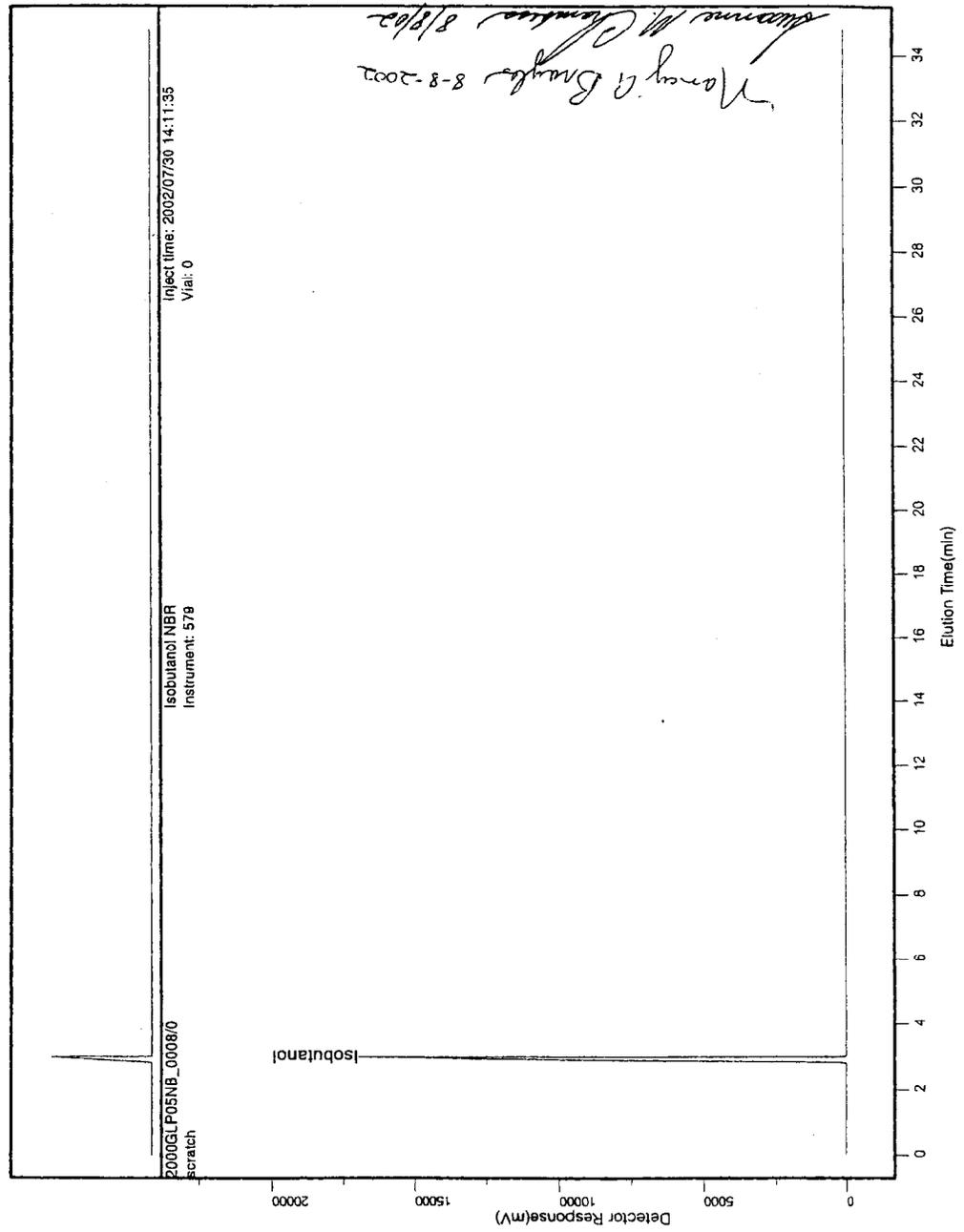


Figure 5 - Capillary GC of 2000-GLP-05-NBR (Isobutanol Poststudy Sample)



Form No. QAU010F01	Effective Date: 17 Sept. 1999
Page 1 of 1	Retirement Date: _____

**QAU Statement**  
**Union Carbide Corporation Technical Center**  
**South Charleston, WV**

Quality Assurance Inspection Summary

Test Substance: **Isobutanol - Analytical Characterization**

Study No.: **2000-GLP-05-NB**

Study Director: **N.A. Broyles**

The Quality Assurance Unit of the UCC Technical Center, South Charleston, WV, conducted the inspections listed below and reported the results to the Study Director and Management on the dates indicated.

Inspection Date	Inspection/Type	Date QAU Report Issued to	
		Management	Study Director
Dec. 13, 2000	Study Protocol	Dec. 13, 2000	Dec. 13, 2000
Dec. 19, 2000	In-life audit - GC	Dec. 19, 2000	Dec. 19, 2000
Nov. 26, 2001	Protocol Amendment	Nov. 26, 2001	Nov. 26, 2001
Sep. 27, 2002	Raw Data Review	Sep. 27, 2002	Sep. 27, 2002
Sep. 27, 2002	Final Report Review	Sep. 27, 2002	Sep. 27, 2002

*Denise L. Johnson* Sept. 27, 2002

Name, QAU Monitor

*Denise L. Johnson*  
*27-Sept.-2002*

Study # 2000-GLP-51-NB

page 14 of 17

# PROTOCOL

GOOD LABORATORY PRACTICE (GLP) STUDY

---

Title: Isobutanol - Analytical Characterization

Purpose: Analytical Characterization of Samples for Toxicology Studies at WIL Research Laboratories, Inc.

Study Number: 2000-GLP-05-NB

Sponsor: American Chemistry Council (ACC)

Testing Facility: Union Carbide Corporation (UCC)  
Technical Center  
3200 Kanawha Turnpike  
South Charleston, WV 25303 (Location 511)

Study Director: Nancy A. Broyles  
UCC Technical Center  
South Charleston, WV 25303

Proposed Starting Date: December 13, 2000

Proposed Completion Date: July 10, 2002

GLP Authority: This study will be conducted in compliance with the U. S. EPA TSCA GLP Standards (40 CFR 792).

Records to be Maintained: All experimental data arising from this study (including sample handling records, hand and computer generated raw data, notebook pages, and study related correspondence, collectively defined as "study materials") will remain the property of the sponsor. These study materials, the original protocol, and the final report will be archived at the UCC Technical Center in South Charleston, WV.

## Test Substance

Name: Isobutanol

Source: Sample from UCC, Texas City, TX; Batch No. 15867

CAS Registry No.: 78-83-1

Description: Transparent colorless liquid

Purity: 99.9 wt % isobutanol (as listed on Certificate of Analysis)

Health/Safety: Harmful if inhaled; irritant; flammable; stable; MSDS available

Storage Conditions: Room temperature

Isobutanol - Analytical Characterization

Page 2 of 2

Study Design

Prestudy and poststudy samples will be analyzed.

The prestudy sample will be characterized by:

- GC for determination of area % purity;
- GC/MS for verification of identity;
- Proton- and carbon-NMR for verification of identity.

The poststudy sample will be analyzed to determine stability by:

- GC for determination of area % purity.

Experimental Procedures

**GC:** The prestudy and poststudy samples will be analyzed to determine the area % purity of the GC components. The samples will be analyzed on a Hewlett-Packard 5890A gas chromatograph equipped with a flame ionization detector (FID) and a DB-1 capillary column. Pre-use inspections and QA/QC checks (flow rate check and system blank) shall be performed prior to sample analysis. The samples will be analyzed by injecting 1.0  $\mu$ L aliquots (split 100:1) onto the GC column. The column temperature will be held at 60°C for 4 minutes, then programmed at a rate of 12°C/minute to 250°C and held for 15 minutes. Triplicate analyses of the prestudy and poststudy samples shall be performed and the average area percent purity shall be reported for all GC components detected at a concentration  $\geq$  0.1 area %. The GC peaks detected at a concentration  $\geq$  0.1 area % shall be identified using the GC/MS data. The GC data are considered acceptable if the precision for triplicate analyses is  $\leq$  2 % relative standard deviation (RSD) for the main GC component; the GC and GC/MS chromatograms are comparable; and the average area percent purity agrees with the purity listed on the certificate of analysis.

**GC/MS:** The prestudy sample will be analyzed to verify the identification of the GC components detected at a concentration  $\geq$  0.1 area %. Electron ionization (EI) and chemical ionization (CI) data will be collected using a Finnigan TSQ-7000 or SSQ-710 mass spectrometer interfaced to a gas chromatograph equipped with a 30m CP-Sil-5-CB MS capillary column. The sample will be analyzed in the EI and CI mode by injecting a minimum of 0.3  $\mu$ L aliquots (minimum split 20:1) onto the GC column. The column temperature will be held at 60°C for 4 minutes, then programmed at a rate of 12°C/minute to 250°C and held for 15 minutes. The sample will be scanned from m/z 10 to m/z 310 in the EI mode and from m/z 60 to m/z 360 in the CI mode. The instrument will be tuned using FC-43 and a methanol blank will be analyzed in the EI mode prior to sample analysis.

**NMR:** The prestudy sample will be dissolved in a premixed solution of deuteriochloroform and tetramethylsilane (TMS) for analysis. Proton and carbon NMR data will be collected using a General Electric GN-300NB spectrometer. The acquisition parameters will be identified in the raw data and presented in the final study report. The spectra will not be acquired under quantitative conditions; the acquisition conditions will be established to identify the major component and to look for any substantial impurities.

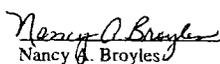
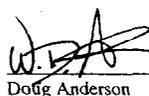
Reviewed and Approved by:

<i>Nancy A. Broyles</i>	<i>12/14/00</i>	<i>Denise L. Johnson</i>	<i>12/13/2000</i>	<i>Barbara Francis</i>	<i>12/18/00</i>
Nancy A. Broyles	Date	Denise L. Johnson	Date	Barbara Francis	Date
Study Director		Quality Assurance Manager		American Chemistry Council	
Analytical Characterization Study				Sponsor's Representative	

Form GEN019F02	Effective Date: 22 July 1999
Page 1 of 1	Retirement Date: _____

**Protocol Amendment #1**  
 Union Carbide Corporation Technical Center  
 A Subsidiary of The Dow Chemical Company  
 South Charleston, WV

<b>Study Title:</b> Isobutanol – Analytical Characterization
<b>Study Number:</b> 2000-GLP-05-NB
<b>Study Director:</b> Nancy A. Broyles
<b>An addition or change is intended to the following section(s) of the protocol:</b>  The test substance source information section, the study design section, and the sponsor approval section of the protocol will be changed.
<b>Intended addition(s) or change(s):</b>  1) A change was made to the test substance source information section to include the addition of a second batch of isobutanol (Batch No. 15874) for characterization. 2) The same study design will be used for this second batch of isobutanol; however, in the event that this second batch is not needed to complete the toxicology studies, a poststudy sample for this second batch will not be analyzed. 3) The sponsor representative for the ACC will be changed to Doug Anderson.
<b>Reason(s) for intended addition(s) or change(s):</b>  The toxicology lab has indicated that they may need more isobutanol to complete their studies. The original batch of isobutanol is not available, so a new batch will be supplied to the toxicology lab and a subsample will be submitted for characterization.
<b>Effect on quality or integrity of study data:</b>  This protocol amendment has no adverse effect on the quality or integrity of the study data.

	4/24/01		11/29/01		11/29/01
Nancy A. Broyles	Date	Denise L. Johnson	Date	Doug Anderson	Date
Study Director		Quality Assurance Manager		American Chemistry Council	
Analytical Characterization Study				Sponsor's Representative	

## **APPENDIX B**

### Purity and Stability Assessments and Structure Confirmation

WIL-186013  
American Chemistry Council

Isobutanol

AN INHALATION TWO-GENERATION REPRODUCTION  
TOXICITY STUDY OF ISOBUTANOL IN RATS

Analyses Of Test Article Purity and Stability

Analytical Chemistry Department

WIL Research Laboratories, Inc.

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## **1. INTRODUCTION**

This report provides a detailed description of the purity analyses of isobutanol test article samples. Pre-initiation samples (taken prior to initial use of each drum in the study) and post-completion samples (taken after final use of each drum in the study) were analyzed by gas chromatography with flame ionization detection to assess and verify purity. With two exceptions, the test article samples that were analyzed were greater than 99.9% pure. The results demonstrated that the test article was stable for the duration of use on this study.

## **2. EXPERIMENTAL**

### **2.1. HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**

<b>Instrument:</b>	Hewlett Packard 5890 gas chromatograph equipped with a flame ionization detector (FID), an autosampler, and an HP ChemStation data system, or equivalent system
<b>Column:</b>	J&W Scientific DB-Wax; 30 m x 0.54 mm ID; 1.0 $\mu$ m film thickness; cat. # 125-7032.
<b>Temperature Program:</b>	40°C for 5 min, ramp at 20°C/min to 225°C, hold 10 min
<b>Carrier Gas:</b>	Helium at 11.0 psi at 40°C
<b>Injector Temperature:</b>	250°C
<b>Injection Volume:</b>	0.2 $\mu$ L using an autosampler with 10- $\mu$ L syringe and nanoliter adapter; or 1 $\mu$ L with a 5:1 split ratio
<b>Detector:</b>	FID at 300°C
<b>Retention Time:</b>	Approximately 5.7 min for isobutanol

## **2.2. PREPARATION OF SAMPLES**

Aliquots (approximately 1 mL) from the collected test article samples were transferred into amber autosampler vials. The vials were capped and placed in an autosampler tray for analysis.

## **2.3. CONCENTRATION QUANTITATION**

Duplicate injections were made of each collected sample. The purity of the injected, undiluted test article was calculated based on the area percent of the resulting peaks.

All calculations were performed by the ChemStation instrument control and data management software or in a PC spreadsheet program (Microsoft<sup>®</sup> Excel).

## **3. RESULTS AND DISCUSSION**

### **3.1. ANALYSIS OF THE PRE-INITIATION AND POST-COMPLETION SAMPLES**

Samples were collected from containers (drums) of test article both prior to and after final use in this study. The four drums used in this study were identified as WIL-4945A#1 through #4 (hereafter referred to as drums #1 through #4, respectively).

The dates that the samples were collected, the dates they were analyzed, and the results obtained from analysis of these samples are presented in Tables I through VIII. With the exception of the analyses conducted on 3/28/02 (drum #3 post use and drum #4 pre use) the measured purity of all samples was greater than 99.9%. This data is summarized in the table below.

<u>Container Identification</u>	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Pre or Post</u>	<u>Mean Purity</u>
WIL-4945A#1	08/17/01	08/21/01	Pre	99.91
WIL-4945A#1	10/31/01	11/13/01	Post	99.92
WIL-4945A#2	10/31/01	11/13/01	Pre	99.91
WIL-4945A#2	01/09/02	01/17/02	Post	99.90
WIL-4945A#3	01/09/02	01/17/02	Pre	99.90
WIL-4945A#3	03/19/02	03/28/02	Post	98.10
WIL-4945A#4	03/26/02	03/28/02	Pre	98.05
WIL-4945A#4	06/12/02	07/23/02	Post	99.93

Since it is extremely unlikely that during use on the study, the isobutanol purity of drum #4 improved from 98.05% to 99.93%, it is concluded that a chromatographic problem was associated with the 3/28/02 analyses. This same problem resulted in the low post dose purity of drum #3 and erroneously indicated the apparent reduction in purity of drum #3 (i.e., a lack of test article stability in that container). The purity of all other samples was greater than 99.9% indicating no significant change from the times of their initial sampling and use in the study.

#### **4. CONCLUSION**

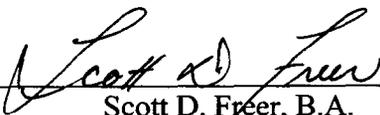
The test article (isobutanol) was analyzed to assess test article purity. The test article used for inhalation exposures was greater than 99.9% pure. The results demonstrated that the test article was stable for the duration of this study.

**5. KEY STUDY PERSONNEL AND REPORT APPROVAL**

Study Personnel:

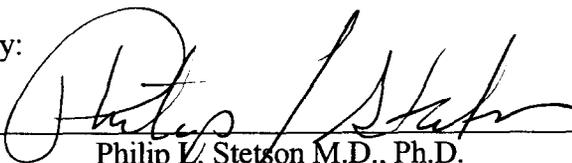
Shelly M. Hollar, B.S.	Chemist
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Prepared by:

  
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Scott D. Freer, B.A.  
Senior Group Supervisor, Analytical Chemistry

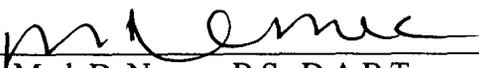
11-13-03  
Date

Reviewed by:

  
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Philip L. Stetson M.D., Ph.D.  
Associate Director, Analytical Chemistry

11/13/03  
Date

Report Approved By:

  
\_\_\_\_\_  
Mark D. Nemec, B.S., D.A.B.T.  
Director, Developmental and  
Reproductive Toxicology  
Study Director

11/13/2003  
Date

**TABLES I-VIII**

**Table I: Pre-Initiation Purity Analysis of the First Test Material Container**

( Analyzed 8/21/01)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> ( 186013 - )	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> ( 186013 - )	<u>Analyzed Purity</u> ( % )	<u>Mean Purity</u> ( % )
WL-4945A#1	TMS-4945A#1-3	1-2	8/17/01	8/21/01	10r	99.91	99.91
					11r	99.90	
					12r	99.91	

**Table II: Post-Initiation Purity Analysis of the First Test Material Container**  
 (Analyzed 11/13/01)

<b>Test Material</b>	<b>Sample Identification</b>	<b>Reference Number</b> (186013 -)	<b>Date Collected</b>	<b>Date Analyzed</b>	<b>Run#</b> (186013 -)	<b>Analyzed Purity</b> (%)	<b>Mean Purity</b> (%)	<b>Percent of Initial Purity</b> (%)
WIL-4945A#1	TMS-4945A#1-5	5-2	10/31/01	11/13/01	23r	99.91767	99.91791	100
					24r	99.91839		
					25r	99.91767		

**Pre-initiation Mean Purity(%)** 99.90534

**Table III: Pre-Initiation Purity Analysis of the Second Test Material Container**

( Analyzed 11/13/01)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> (186013 -)	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> (186013 -)	<u>Analyzed Purity</u> (%)	<u>Mean Purity</u> (%)
WIL-4945A#2	TMS-4945A#2-1	5-1	10/31/01	11/13/01	20r	99.90981	99.91162
					21r	99.91166	
					22r	99.91338	

**Table IV: Post-Initiation Purity Analysis of the Second Test Material Container**

(Analyzed 1/17/02)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> (186013-)	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> (186013-)	<u>Analyzed Purity</u> (%)	<u>Mean Purity</u> (%)	<u>Percent of Initial Purity</u> (%)
WIL-4945A#2	TMS-4945A#2-3	10-2	1/9/02	1/17/02	29R	99.89838	99.89862	100
					30R	99.89947		
					31R	99.89800		

Pre-initiation Mean Purity (%) 99.91162

**Table V: Pre-Initiation Purity Analysis of the Third Test Material Container**

( Analyzed 1/17/02)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> ( 186013 - )	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> ( 186013 - )	<u>Analyzed Purity</u> ( % )	<u>Mean Purity</u> ( % )
WIL-4945A#3	TMS-4945A#3-1	10-1	1/9/02	1/17/02	27R	99.89762	99.89744
					28R	99.89780	
					32R	99.89689	

**Table VI: Post-Initiation Purity Analysis of the Third Test Material Container**

(Analyzed 3/28/02)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> (186013-)	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> (186013-)	<u>Analyzed Purity</u> (%)	<u>Mean Purity</u> (%)	<u>Percent of Initial Purity</u> (%)
WIL-4945A#3	TMS-4945A#3-3	16-2	3/19/02	3/28/02	38r	98.12069	98.10349	98.2
					39r	98.09117		
					40r	98.09861		

Pre-initiation Mean Purity (%) 99.89744

**Table VII: Pre-Initiation Purity Analysis of the Fourth Test Material Container**

( Analyzed 3/28/02)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> (186013 -)	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run #</u> (186013 -)	<u>Analyzed Purity</u> (%)	<u>Mean Purity</u> (%)
WIL-4945A#4	TMS-4945A#4-1	16-1	3/26/02	3/28/02	34r	98.05467	98.04746
					35r	98.05868	
					36r	98.02903	

**Table VIII: Post-Initiation Purity Analysis of the Fourth Test Material Container**

(Analyzed 7/23/02)

<u>Test Material</u>	<u>Sample Identification</u>	<u>Reference Number</u> (186013-)	<u>Date Collected</u>	<u>Date Analyzed</u>	<u>Run#</u> (186013-)	<u>Analyzed Purity</u> (%)	<u>Mean Purity</u> (%)	<u>Percent of Initial Purity</u> (%)
WIL-4945A#4	TMS-4945A#4-3	23-1	6/12/02	7/23/02	45r	99.92764	99.93095	102
					46r	99.93246		
					47r	99.93274		

Pre-initiation Mean Purity (%) 98.04746

## **APPENDIX C**

### Inhalation Report (WIL Research Laboratories, Inc.)

An Inhalation Two-Generation  
Reproductive Toxicity Study of Isobutanol in Rats

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An Inhalation Two-Generation  
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## **1. EXPOSURE METHODS**

### **1.1. EXPOSURE REGIMEN**

The test article or air (control group) was administered as a daily six-hour exposure. Exposures were conducted seven days per week at approximately the same time each day according to the following regimen. F<sub>0</sub> male animals were exposed for a minimum of 70 days prior to mating and continuing until euthanasia. F<sub>0</sub> females were exposed for a minimum of 70 days prior to mating, continuing throughout mating and gestation until gestation day 20. The F<sub>1</sub> generation animals were potentially exposed to the test article *in utero* and through nursing during lactation. Beginning on PND 28, all weanlings per group were exposed for a minimum of 70 days prior to mating and continuing throughout mating, gestation and lactation until euthanasia beginning after weaning of F<sub>2</sub> pups. To avoid confounding effects on nesting and nursing behavior, exposure for the F<sub>0</sub> dams was suspended from gestation day 21 through lactation day 4. Exposures were then re-initiated on lactation day 5 and continued until one day prior to euthanasia. No F<sub>2</sub> animals were exposed. Animals in the control group were subjected to the identical exposure regimen.

### **1.2. INHALATION EXPOSURE SYSTEMS DESCRIPTION**

Exposures were conducted in four 2.0 m<sup>3</sup> stainless steel and glass whole-body inhalation chambers. One chamber was dedicated for each group for the duration of the study. Chamber supply air was provided from a HEPA- and charcoal-filtered, temperature- and humidity-controlled source. Treatment of exhaust air consisted of charcoal- and HEPA-filtration.

### **1.3. ANIMAL TRANSPORT AND PLACEMENT**

Animals were individually housed in stainless steel, wire-mesh caging. Food and water were not available during exposure periods.

Animals were housed in a normal colony room during the non-exposure hours. For each day's exposure, the animals were transferred to exposure caging, transported to the exposure chamber room, exposed for the requisite duration and returned to their home cages.

The cage batteries were rotated on a daily basis through six battery positions in the chambers to help ensure a similar exposure for all animals within each group over the duration of the exposure period.

#### **1.4. EXPOSURE ENVIRONMENTAL CONDITIONS**

Temperature, relative humidity, chamber ventilation rate, and negative pressure within the chambers were continually monitored and recorded approximately every 35 minutes through the use of a data acquisition program written in LabVIEW<sup>®</sup> for Windows<sup>®</sup> from National Instruments, Inc. (Austin, Texas) and a Pentium<sup>®</sup>-based computer with appropriate hardware.

Chamber temperature and relative humidity were monitored by Omega model no. HX94C temperature and humidity transmitter probes (Omega Engineering, Inc., Stamford, Connecticut). Protocol-defined ranges for daily mean temperature and relative humidity were 18°-26°C and 30-60%, respectively. Airflow through the chamber was monitored by the pressure drop across a sharp-edge orifice plate as measured by differential pressure gauges (Magnehelic<sup>®</sup> Indicating Transmitter, Dwyer, Michigan City, Indiana) and was set such that there were 12-15 air changes per hour. These gauges had been calibrated under the conditions of exposure for conversion from pressure to airflow in liters per minute (LPM) through the use of an FM Series Axial Turbine Flow Transducer and a 915 BATRT Indicator (Flowmetrics, Inc., Canoga Park, California). Oxygen content was to be at least 19% and was measured for group 4, only, during the pre-exposure method development phase with a calibrated oxygen sensor (Remote Sampling System,

MSA-RSS-p-04-C-5, Mine Safety Appliances Co., Pittsburgh, Pennsylvania). Oxygen content was above 19%.

Daily means for chamber temperature, relative humidity, and chamber ventilation rate over the study period are presented in Tables 1 through 3. The actual ranges from daily mean temperature and relative humidity were 19°-26°C and 26-56%, respectively. For 15 of the 269 exposures for chamber 4, the daily mean relative humidity was below the protocol-defined lower limit of 30%. The following table summarizes the grand means for environmental conditions for all four study groups:

	<u>Group 1</u>	<u>Group 2</u>	<u>Group 3</u>	<u>Group 4</u>
<b>Temperature Mean (°C):</b>	23	23	24	22
<b>Standard Deviation:</b>	1.2	0.9	1.0	0.6
<b>Number of days:</b>	269	269	269	269
<b>Relative Humidity Mean (%):</b>	39	43	45	35
<b>Standard Deviation:</b>	4.5	3.3	3.6	3.3
<b>Number of days:</b>	269	269	269	269
<b>Chamber Ventilation</b>				
<b>Rate Mean (SLPM):</b>	448	431	456	457
<b>Standard Deviation:</b>	19.6	18.5	20.4	22.5
<b>Number of days:</b>	269	269	269	269

## **2. TEST ATMOSPHERE GENERATION METHODS**

The test atmosphere generation and exposure system is shown schematically in Figure 1. The generation system was operated as follows: Vapors of the test article were generated using a heated bead column. The test article was introduced to the top of the column, while nitrogen entering the bottom of the column served as the carrier gas. For Groups 2 and 3 the column was 2.4 cm in diameter (ID), 40 cm long filled with 2, 3 and 4 mm beads. For Group 4, the column was 5 cm in diameter (ID) and 68 cm long filled with 3, 6, 8 and 12-mm beads. The columns were wrapped with heating tapes (Omega

Engineering). Temperatures were set to approximately 100°C for chambers 2 and 3, and approximately 170-185°C for chamber 4 using an Omega CN370 temperature controller. The chamber 4 temperature was significantly higher due to the need to maintain an internal temperature of at least 70°C to ensure vaporization of the test article. The test article was vaporized as it dripped from 1/16-inch Teflon<sup>®</sup> tubing onto the glass beads contained within each heated column.

The test article was metered from an amber glass reservoir to the column using an FMI pump (Fluid Metering, Inc., Oyster Bay, New York). Calibrated FMI pumps included 2 model no. QG-6 pumps with a 1/4-inch piston for chamber 2, and a 3/8-inch piston for chamber 3 and a model no. QG-20 pump with a 1/4-inch piston for chamber 4. Vaporization nitrogen was delivered from the facility nitrogen generation system and was controlled using calibrated flowmeters (Gilmont Instruments, Barrington, Illinois). The vaporization nitrogen carried the isobutanol vapor through Teflon<sup>®</sup> delivery lines (3/8-inch O.D. tubing for chambers 2 and 3, 1-inch O.D. tubing for chamber 4) to the chamber inlet where the concentration was reduced to the desired level with chamber ventilation air. The animal exposure was initiated by switching the FMI pumps and the compressed nitrogen on simultaneously. The following table indicates generation and exposure system operating parameters for each exposure group.

<u>Group Number</u>	<u>FMI Pump Setting</u>	<u>Target Concentration (ppm)</u>	<u>Column Temperature (Deg C)</u>	<u>Internal Temperature (Deg C)</u>	<u>Test Article Flow Rate (ml/min)</u>	<u>Nitrogen Flow Rate (LPM)</u>
1	NA	0	100	NA	NA	40
2	4.8	500	100	NA	1.06	20
3	3.8	1000	100	NA	1.80	20
4	6.5	2500	170	~70	4.64	40

On April 29, 2002, an error in the startup procedure for chamber 2 (500 ppm) occurred. This error resulted in the recording of a 0 ppm concentration for the first sample round,

and a concentration of 344 ppm for the second. Due to this incidence, the exposure for chamber 2 was extended an appropriate length of time, and an additional sample was taken in the extended time, with the values being edited accordingly. The 344 ppm sample is most likely a result of the original error.

### **3. METHODS OF CHARACTERIZATION OF EXPOSURE ATMOSPHERES**

#### **3.1. NOMINAL EXPOSURE CONCENTRATIONS**

A nominal exposure concentration was calculated for each chamber for every daily exposure from the total amount of test article used during the exposure and the total volume of air passed through the chamber during that day's exposure. The amount of test article used was obtained by weighing the reservoir containing the test article for each chamber prior to and after each day's exposure. The total volume of air passed through each chamber was calculated from the daily average chamber ventilation flow rate in liters per minute (LPM) and the exposure duration. The nominal concentration was calculated as follows:

$$\text{ppm Isobutanol} = \frac{\text{Wt. Isobutanol} \bullet \text{Mol. Vol.} \bullet 10^6}{\text{MW} \bullet \text{Ch. Flow} \bullet \text{Exp. Dur.}}$$

Where:

- Wt. Isobutanol = Weight of test article in grams
- Mol. Vol. = Molar volume at 730 mmHg and 21°C, 25.11 L/mol
- $10^6$  = ppm conversion factor
- MW = Isobutanol molecular weight, 74.12 g/mol
- Ch. Flow = Daily average chamber flowrate for a given day, in LPM
- Exp. Dur. = Duration of a given day's exposure plus length of priming, in minutes

### **3.2. ANALYZED EXPOSURE CONCENTRATIONS**

#### **3.2.1. ANALYTICAL METHODS**

Analyzed exposure concentrations were obtained using a gas chromatograph (GC). Samples of the exposure atmospheres were automatically collected at approximately 35-minute intervals using a sample loop and a computer-controlled multiposition valve (model E16, S/N 52385, Valco Instruments Co., Inc. Houston, Texas). Daily concentration averages were to be within  $\pm 10\%$  of the target concentration, and any individual sample was to be  $\pm 15\%$  of the target concentration.

The following table summarizes the GC conditions:

GC Manufacturer .....	Hewlett–Packard
Model No. ....	5890 Series
Detector Type .....	FID
Detector Temperature .....	175°C
Column Diameter X Length .....	0.25 mm x 5 m
Column Type .....	DB-WAX
Fuel Gas .....	Hydrogen
Fuel Pressure .....	15 psig
Fuel Flowrate .....	43 mL/min.
Air Pressure .....	35 psig
Air Flowrate .....	311 mL/min.
Carrier Gas .....	Helium
Carrier Gas Pressure .....	34 psig
Carrier Gas Flowrate .....	7 mL/min
Injection Volume .....	0.25 mL
Retention Time .....	Approx. 1.6
Integrator Manufacturer: HP Model 3396A	
Chart Zero Offset .....	0
Chart Attenuation .....	4

Chart Speed ..... 1.0 cm/min  
Peak Area Rejection Value ..... 0  
Peak Threshold ..... 4  
Peak Width ..... 0.04

Following exposure on October 8, 2001, due to problems encountered with the GC, it was necessary to re-calibrate the instrument and adjust some of the settings. The following table summarizes the new GC conditions that were used for the remainder of the study:

GC Manufacturer ..... Hewlett-Packard  
Model No. .... 5890 Series

Detector Type ..... FID  
Detector Temperature ..... 175°C

Column Diameter X Length ..... 0.25 mm x 5 m  
Column Type ..... DB-WAX

Fuel Gas ..... Hydrogen  
Fuel Pressure ..... 15 psig  
Fuel Flowrate ..... 43 mL/min.

Air Pressure ..... 35 psig  
Air Flowrate ..... 311 mL/min.

Carrier Gas ..... Helium  
Carrier Gas Pressure ..... 34 psig  
Carrier Gas Flowrate ..... 7 mL/min

Injection Volume ..... 0.25 mL  
Retention Time ..... Approx. 1.6

Integrator Manufacturer: HP Model 3396A  
Chart Zero Offset ..... 0  
Chart Attenuation ..... 5  
Chart Speed ..... 1.0 cm/min  
Peak Area Rejection Value ..... 0  
Peak Threshold ..... 6  
Peak Width ..... 0.04

### **3.2.2. GAS CHROMATOGRAPH CALIBRATION**

The GC was standardized using 40-liter Tedlar<sup>®</sup> gas bags prepared to contain a known concentration of the test article. The standard bags were prepared by injecting a known volume of test article into a gas-sampling bulb (Ace Glass Inc., Vineland, New Jersey.) using Gastight<sup>®</sup> syringes (Hamilton Co., Reno, Nevada). Then, a known volume of air was metered into the bag through the gas-sampling bulb using a dry test meter (Model DTM-200A, American Meter Co., Nebraska City, Pennsylvania). Concentrations of the gas-phase standards were calculated as follows:

$$\text{Concentration} = \frac{\text{VOL} \cdot \text{R} \cdot \text{T} \cdot \text{D} \cdot 10^{-3} \cdot 10^6}{\text{L} \cdot \text{GMW} \cdot \text{P}}$$

Where:

Conc. is in ppm

- VOL = Volume of test article vaporized into bag in  $\mu\text{l}$
- R = Universal gas constant,  $\frac{62.36 \text{ L mmHg}}{\text{mole K}}$
- T = Nominal laboratory temperature in K (273 + 21°C = 294 K)
- D = Density of the test article
- L = Volume of air used to prepare bag, 30 liters
- GMW = Gram molecular weight, 74.12 g/mole
- P = Nominal laboratory barometric pressure, 730 mmHg
- $10^{-3}$  =  $\mu\text{L}$  to mL conversion factor
- $10^6$  = Conversion factor to ppm

The following table defines the standards prepared for this study:

Standard Concentration (ppm)	Volume of Test Article (µl)	Nominal Vaporization Temperature (° C)	Nominal Vaporization Flow Rate (LPM)	Total Dilution Air Volume (L)
Low Calibration Curve				
363	40	71	3	30
635	70	71	3	30
1088	120	71	3	30
1633	180	71	3	30

High Concentration Curve				
1633	180	71	3	30
2267	250	71	3	30
2721	300	71	3	30

Each standard was prepared in triplicate prior to the exposure period and analyzed with the GC. A least-squares line was fitted to the resulting peak areas for the formation of both low and high calibration curves. The low calibration curve was used for chambers 2 and 3, and the high calibration curve was used for chamber 4. Concentrations were then calculated using the slope and intercept from the least-squares lines.

On a daily basis, the integrity of the prime calibration curve was checked by analyzing one freshly prepared standard. On a rotational basis, a different one of the six standards was used each day, alternating between the standards for the low calibration curve, and those for the high calibration curve. If the analyzed concentration was within  $\pm 10\%$  of the known concentration, the GC was considered within calibration specifications.

On March 30, 2002, the gas chromatograph was re-calibrated, giving prime calibration curves 7a and 7b. However, it was not possible to enter these prime calibrations into the LabVIEW<sup>®</sup> software until April 1, 2002. For this reason, all sample rounds conducted by

LabVIEW<sup>®</sup> on March 30 were calculated manually, and these manual calculations were edited into the study data.

### **3.3. DETERMINATION OF HOMOGENEITY OF EXPOSURE ATMOSPHERES**

Evaluation of the homogeneity of exposure concentrations was accomplished during the method development phase of the study prior to animal exposures. Four test locations and a reference location were used for these determinations. The test locations were Right Upper Rear, Left Lower Rear, Right Lower Front and Left Upper Front identified as 1, 2, 3 and 4, respectively. Samples were collected as rapidly as possible always collecting a sample from the reference location and then from one of the four test locations. For each test location, the measured concentration was calculated as a percent difference from the reference location. The homogeneity determination was performed in triplicate for each test article exposure chamber. The results are presented in Table 4 of this appendix. The following table summarizes these data as the mean of the replicates for each chamber.

<u>Chamber Number</u>	<u>Test Location</u>	<u>Mean % From Reference</u>
2	1	-1.0
	2	-0.1
	3	-2.2
	4	-1.8
3	1	-2.9
	2	-1.9
	3	-3.6
	4	-2.6
4	1	-1.9
	2	-0.7
	3	-2.2
	4	-1.2

These data indicate that homogeneity of exposure atmospheres were adequate for the purpose of this study.

#### **4. RESULTS OF CHARACTERIZATION OF EXPOSURE ATMOSPHERES**

##### **4.1. NOMINAL EXPOSURE CONCENTRATIONS**

The overall mean nominal concentrations for the F<sub>0</sub> generation were 643 ppm, 1131 ppm and 2791 ppm for groups 2, 3 and 4, respectively. The overall mean nominal concentrations for the F<sub>1</sub> generation were 668 ppm, 1140 ppm and 2867 ppm for groups 2, 3 and 4, respectively. Daily mean nominal concentrations for each generation are presented in Tables 7 and 8 of this appendix.

##### **4.2. ANALYZED EXPOSURE CONCENTRATIONS**

The overall mean analyzed concentrations for the F<sub>0</sub> generation were 500 ppm, 1008 ppm and 2522 ppm for groups 2, 3 and 4, respectively. The overall mean analyzed concentrations for the F<sub>1</sub> generation were 494 ppm, 1012 ppm and 2521 ppm for groups 2, 3 and 4, respectively. Daily mean test atmosphere concentrations for each generation are presented in Tables 5 and 6 of this appendix.

**5. KEY STUDY PERSONNEL AND REPORT APPROVAL**

Report Prepared by:

Jason W. Boggs, B.S.                      Group Supervisor, Inhalation Toxicology

Report Reviewed by:

  
Daniel T. Kirkpatrick, Ph.D., D.A.B.T.  
Director, Inhalation Toxicology

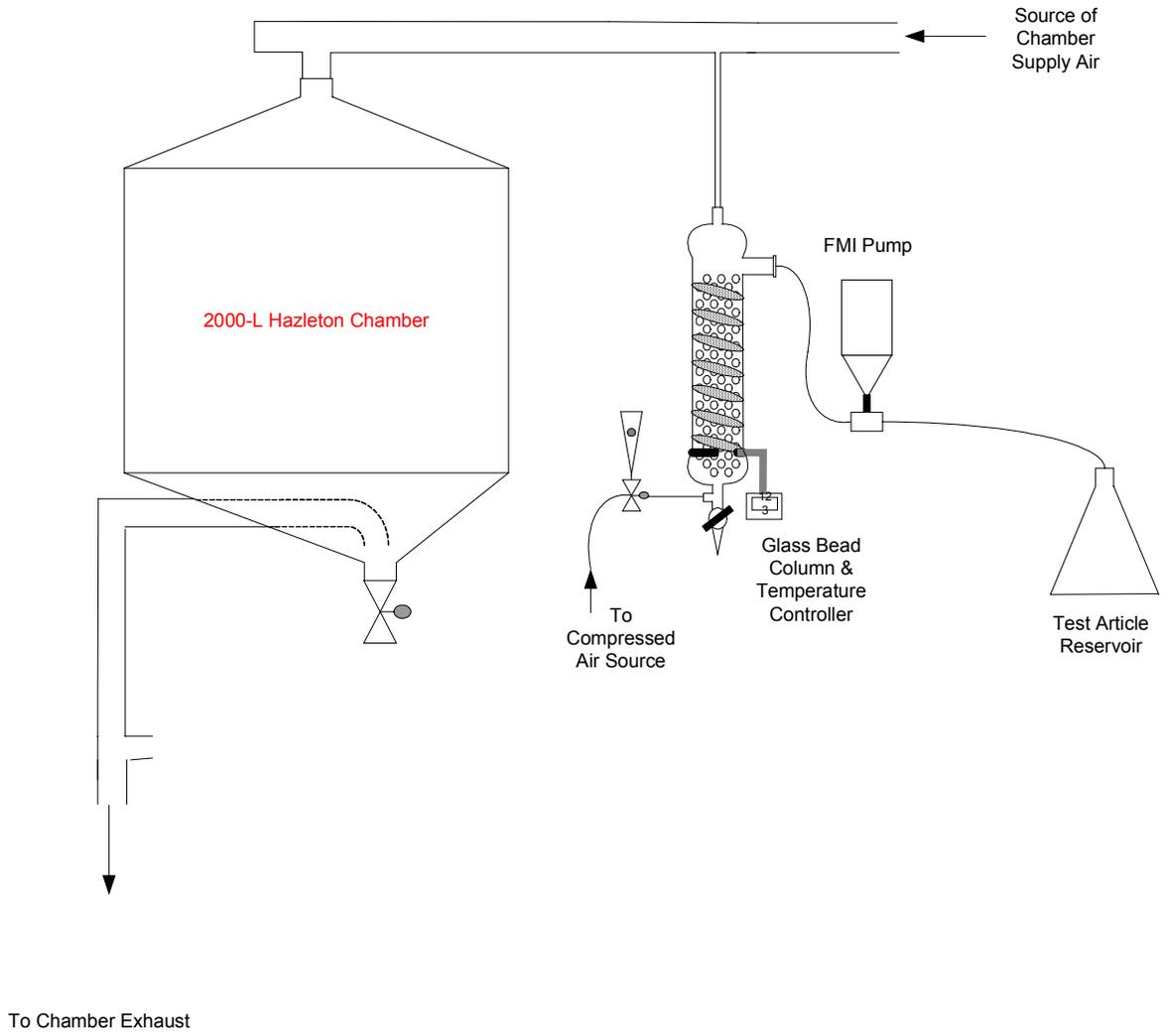
11-13-03  
Date

Report Approved by:

  
Mark D. Nemec, B.S., D.A.B.T.  
Director, Developmental and  
Reproductive Toxicology  
Study Director

11/13/2003  
Date

**Figure 1. Schematic Diagram Of Generation And Exposure System**



**TABLES 1 - 8**

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INHALATION TABLE 1  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
09/04/01		23.	24.	24.	22.
09/05/01		23.	24.	24.	23.
09/06/01		23.	24.	25.	22.
09/07/01		22.	23.	24.	22.
09/08/01		22.	23.	24.	22.
09/09/01		23.	23.	24.	22.
09/10/01		24.	24.	24.	22.
09/11/01		23.	24.	24.	23.
09/12/01		22.	24.	25.	22.
09/13/01		22.	23.	24.	22.
09/14/01		22.	23.	24.	22.
09/15/01		22.	23.	23.	22.
09/16/01		22.	23.	24.	22.
09/17/01		23.	24.	24.	22.
09/18/01		23.	24.	25.	22.
09/19/01		22.	23.	25.	22.
09/20/01		22.	23.	24.	22.
09/21/01		22.	23.	24.	22.
09/22/01		23.	23.	24.	22.
09/23/01		23.	24.	24.	22.
09/24/01		22.	24.	25.	22.
09/25/01		22.	23.	24.	22.
09/26/01		22.	23.	24.	22.
09/27/01		22.	23.	24.	22.
09/28/01		23.	23.	24.	22.
09/29/01		22.	23.	24.	22.
09/30/01		22.	23.	25.	22.

INHALATION TABLE 1  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
10/01/01		22.	22.	24.	22.
10/02/01		22.	23.	24.	22.
10/03/01		22.	23.	24.	22.
10/04/01		23.	24.	24.	23.
10/05/01		23.	24.	24.	22.
10/06/01		22.	24.	25.	22.
10/07/01		21.	22.	24.	22.
10/08/01		22.	22.	24.	22.
10/09/01		22.	23.	23.	22.
10/10/01		23.	23.	24.	22.
10/11/01		23.	23.	24.	22.
10/12/01		23.	24.	25.	22.
10/13/01		23.	23.	25.	22.
10/14/01		23.	23.	25.	22.
10/15/01		22.	23.	24.	22.
10/16/01		23.	24.	25.	22.
10/17/01		22.	23.	24.	22.
10/18/01		21.	22.	23.	21.
10/19/01		22.	22.	23.	22.
10/20/01		22.	22.	23.	22.
10/21/01		22.	23.	23.	21.
10/22/01		23.	23.	23.	22.
10/23/01		23.	23.	23.	22.
10/24/01		23.	24.	23.	22.
10/25/01		22.	22.	24.	22.
10/26/01		22.	22.	23.	22.
10/27/01		21.	22.	21.	21.

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INHALATION TABLE 1  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
10/28/01		22.	22.	22.	21.
10/29/01		22.	23.	23.	22.
10/30/01		22.	23.	24.	22.
10/31/01		22.	23.	23.	22.
11/01/01		22.	23.	23.	22.
11/02/01		22.	23.	23.	22.
11/03/01		23.	23.	23.	22.
11/04/01		23.	23.	23.	22.
11/05/01		22.	23.	23.	21.
11/06/01		21.	22.	23.	21.
11/07/01		22.	22.	23.	21.
11/08/01		22.	23.	23.	22.
11/09/01		22.	23.	22.	21.
11/10/01		23.	23.	23.	21.
11/11/01		22.	23.	23.	21.
11/12/01		20.	21.	22.	20.
11/13/01		21.	21.	22.	21.
11/14/01		22.	23.	23.	22.
11/15/01		23.	23.	23.	22.
11/16/01		24.	24.	24.	22.
11/17/01		23.	24.	24.	22.
11/18/01		22.	22.	23.	22.
11/19/01		22.	22.	23.	22.
11/20/01		21.	22.	22.	21.
11/21/01		22.	23.	22.	22.
11/22/01		22.	23.	22.	22.
11/23/01		21.	23.	23.	21.

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INHALATION TABLE 1  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
11/24/01		22.	22.	23.	22.
11/25/01		22.	22.	23.	22.
11/26/01		22.	22.	22.	22.
11/27/01		23.	24.	23.	22.
11/28/01		23.	23.	22.	22.
11/29/01		23.	23.	23.	22.
11/30/01		22.	22.	23.	22.
12/01/01		22.	22.	23.	22.
12/02/01		21.	22.	22.	21.
12/03/01		23.	23.	22.	22.
12/04/01		23.	23.	23.	22.
12/05/01		23.	23.	23.	22.
12/06/01		22.	22.	23.	22.
12/07/01		22.	23.	23.	22.
12/08/01		20.	21.	22.	21.
12/09/01		20.	21.	21.	21.
12/10/01		20.	21.	21.	20.
12/11/01		20.	22.	22.	21.
12/12/01		20.	21.	22.	21.
12/13/01		22.	22.	23.	22.
12/14/01		22.	23.	23.	22.
12/15/01		22.	23.	22.	22.
12/16/01		22.	22.	22.	22.
12/17/01		23.	24.	24.	22.
12/18/01		21.	22.	23.	21.
12/19/01		21.	21.	22.	21.
12/20/01		20.	21.	21.	21.

INHALATION TABLE 1  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
12/21/01		21.	21.	21.	21.
12/22/01		20.	21.	21.	21.
12/23/01		22.	23.	24.	22.
12/24/01		19.	21.	22.	21.
12/25/01		19.	20.	20.	20.
12/26/01		19.	20.	20.	20.
12/27/01		22.	22.	22.	22.
12/28/01		21.	23.	22.	22.
12/29/01		21.	23.	23.	22.
12/30/01		21.	22.	23.	21.
12/31/01		21.	22.	22.	21.
01/01/02		21.	22.	22.	21.
01/02/02		22.	23.	22.	22.
01/03/02		23.	23.	22.	22.
01/04/02		23.	24.	23.	22.
01/05/02		23.	23.	24.	22.
01/06/02		24.	23.	23.	22.
01/07/02		24.	24.	23.	22.
01/08/02		24.	24.	24.	23.
01/09/02		25.	25.	24.	23.
01/10/02		24.	24.	24.	23.
01/11/02		23.	23.	23.	22.
01/12/02		23.	24.	24.	23.
01/13/02		24.	24.	23.	23.
01/14/02		22.	22.	23.	22.
01/15/02		21.	22.	23.	22.
01/16/02		21.	22.	22.	22.

INHALATION TABLE 1  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
01/17/02		22.	22.	23.	22.
01/18/02		23.	23.	23.	22.
01/19/02		22.	22.	23.	22.
01/20/02		22.	21.	23.	21.
01/21/02		22.	22.	23.	22.
01/22/02		21.	22.	23.	22.
01/23/02		23.	22.	23.	22.
01/24/02		23.	22.	23.	22.
01/25/02		23.	23.	24.	22.
01/26/02		22.	22.	24.	22.
01/27/02		22.	22.	24.	22.
01/28/02		22.	23.	23.	22.
01/29/02		24.	23.	24.	22.
01/30/02		23.	23.	24.	22.
01/31/02		23.	22.	24.	22.
02/01/02		23.	22.	24.	22.
02/02/02		22.	22.	23.	22.
02/03/02		22.	22.	23.	22.
02/04/02		22.	22.	22.	22.
02/05/02		22.	22.	23.	22.
02/06/02		23.	23.	24.	22.
02/07/02		22.	22.	24.	22.
02/08/02		22.	22.	23.	22.
02/09/02		22.	22.	23.	22.
02/10/02		24.	23.	24.	23.
02/11/02		23.	22.	23.	22.
02/12/02		23.	23.	24.	22.

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DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
02/13/02		21.	21.	23.	21.
02/14/02		22.	22.	23.	22.
02/15/02		22.	22.	23.	22.
02/16/02		23.	23.	23.	22.
02/17/02		23.	23.	23.	22.
02/18/02		22.	22.	23.	22.
02/19/02		22.	22.	23.	22.
02/20/02		22.	22.	24.	22.
02/21/02		22.	22.	23.	22.
02/22/02		23.	22.	23.	22.
02/23/02		23.	22.	23.	22.
02/24/02		23.	22.	24.	22.
02/25/02		22.	22.	24.	22.
02/26/02		22.	22.	24.	22.
02/27/02		21.	22.	23.	22.
02/28/02		23.	22.	23.	22.
03/01/02		23.	23.	23.	22.
03/02/02		23.	23.	24.	22.
03/03/02		23.	22.	24.	22.
03/04/02		22.	21.	23.	21.
03/05/02		22.	22.	22.	22.
03/06/02		23.	22.	23.	22.
03/07/02		23.	23.	23.	23.
03/08/02		23.	23.	24.	22.
03/09/02		23.	22.	24.	22.
03/10/02		22.	22.	24.	22.
03/11/02		22.	22.	23.	22.

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INHALATION TABLE 1  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

PAGE 8

DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
03/12/02		23.	23.	23.	22.
03/13/02		24.	23.	24.	23.
03/14/02		24.	23.	25.	22.
03/15/02		23.	23.	25.	22.
03/16/02		23.	22.	24.	22.
03/17/02		22.	22.	23.	22.
03/18/02		23.	23.	23.	22.
03/19/02		23.	23.	23.	22.
03/20/02		23.	22.	24.	22.
03/21/02		23.	22.	24.	22.
03/22/02		23.	22.	24.	22.
03/23/02		22.	22.	23.	22.
03/24/02		24.	23.	24.	22.
03/25/02		23.	23.	23.	22.
03/26/02		23.	23.	24.	22.
03/27/02		22.	21.	24.	22.
03/28/02		23.	22.	24.	22.
03/29/02		23.	23.	24.	22.
03/30/02		24.	23.	24.	23.
03/31/02		24.	24.	24.	23.
04/01/02		24.	23.	25.	22.
04/02/02		23.	23.	25.	22.
04/03/02		23.	23.	24.	22.
04/04/02		23.	23.	23.	22.
04/05/02		24.	23.	23.	22.
04/06/02		24.	24.	24.	23.
04/07/02		24.	23.	25.	22.

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INHALATION TABLE 1  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
04/08/02		24.	23.	25.	22.
04/09/02		24.	23.	25.	22.
04/10/02		23.	23.	24.	22.
04/11/02		25.	23.	24.	23.
04/12/02		25.	24.	24.	23.
04/13/02		25.	24.	25.	23.
04/14/02		24.	23.	25.	22.
04/15/02		24.	23.	25.	22.
04/16/02		24.	23.	24.	22.
04/17/02		26.	24.	25.	23.
04/18/02		25.	25.	25.	23.
04/19/02		25.	24.	26.	23.
04/20/02		24.	23.	25.	22.
04/21/02		23.	23.	24.	22.
04/22/02		22.	22.	23.	22.
04/23/02		23.	23.	23.	22.
04/24/02		24.	23.	24.	23.
04/25/02		24.	23.	24.	22.
04/26/02		23.	23.	25.	22.
04/27/02		23.	23.	24.	22.
04/28/02		24.	23.	24.	23.
04/29/02		25.	24.	24.	23.
04/30/02		24.	24.	24.	23.
05/01/02		25.	24.	25.	23.
05/02/02		24.	23.	25.	23.
05/03/02		24.	24.	25.	23.
05/04/02		23.	23.	24.	23.

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 1  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER TEMPERATURE [DEGREES CELSIUS]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
05/05/02		25.	24.	24.	23.
05/06/02		24.	24.	24.	23.
05/07/02		25.	24.	26.	23.
05/08/02		24.	23.	25.	23.
05/09/02		24.	24.	25.	23.
05/10/02		24.	24.	24.	23.
05/11/02		25.	24.	24.	23.
05/12/02		25.	24.	25.	23.
05/13/02		25.	24.	26.	23.
05/14/02		24.	23.	25.	23.
05/15/02		24.	24.	25.	23.
05/16/02		24.	23.	24.	22.
05/17/02		25.	24.	24.	23.
05/18/02		25.	24.	24.	23.
05/19/02		25.	24.	25.	23.
05/20/02		24.	23.	25.	22.
05/21/02		24.	23.	25.	22.
05/22/02		24.	23.	24.	22.
05/23/02		24.	24.	24.	23.
05/24/02		25.	24.	25.	23.
05/25/02		25.	24.	26.	23.
05/26/02		24.	23.	25.	23.
05/27/02		24.	23.	25.	22.
05/28/02		24.	24.	24.	23.
05/29/02		24.	23.	24.	23.
05/30/02		22.	23.	23.	22.
GRAND MEAN		23.	23.	24.	22.
S.D.		1.2	0.9	1.0	0.6
C.V. (%)		5.3	3.8	4.4	2.7
N		269	269	269	269

PINHv4.02  
 06/17/2002  
 R:10/20/2003

PROJECT NO.:WIL-186013I  
SPONSOR:ACC

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

PAGE 1

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
09/04/01		46.	44.	42.	41.
09/05/01		47.	46.	42.	43.
09/06/01		46.	46.	42.	35.
09/07/01		48.	43.	39.	38.
09/08/01		48.	44.	40.	38.
09/09/01		49.	46.	44.	42.
09/10/01		44.	41.	40.	37.
09/11/01		46.	43.	40.	40.
09/12/01		47.	44.	40.	34.
09/13/01		47.	44.	40.	36.
09/14/01		45.	42.	38.	36.
09/15/01		44.	41.	37.	36.
09/16/01		45.	41.	39.	37.
09/17/01		45.	43.	39.	40.
09/18/01		44.	44.	39.	38.
09/19/01		47.	44.	38.	40.
09/20/01		45.	45.	38.	40.
09/21/01		47.	44.	41.	39.
09/22/01		45.	43.	39.	39.
09/23/01		47.	44.	39.	41.
09/24/01		45.	42.	43.	34.
09/25/01		38.	38.	38.	31.
09/26/01		37.	36.	36.	30.
09/27/01		41.	39.	42.	34.
09/28/01		41.	41.	45.	39.
09/29/01		41.	44.	45.	39.
09/30/01		40.	45.	43.	33.

INHALATION TABLE 2  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

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DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
10/01/01		42.	43.	41.	34.
10/02/01		45.	44.	43.	37.
10/03/01		43.	42.	43.	36.
10/04/01		42.	40.	45.	38.
10/05/01		43.	44.	45.	36.
10/06/01		37.	39.	40.	29.*
10/07/01		33.	35.	35.	27.*
10/08/01		34.	35.	35.	28.*
10/09/01		36.	35.	37.	29.*
10/10/01		40.	39.	42.	35.
10/11/01		43.	44.	46.	37.
10/12/01		44.	45.	45.	37.
10/13/01		46.	46.	45.	39.
10/14/01		44.	41.	44.	38.
10/15/01		35.	35.	38.	32.
10/16/01		37.	37.	41.	32.
10/17/01		32.	34.	38.	27.*
10/18/01		34.	36.	39.	27.*
10/19/01		36.	37.	39.	30.
10/20/01		39.	40.	42.	33.
10/21/01		45.	41.	48.	40.
10/22/01		42.	41.	47.	36.
10/23/01		46.	46.	54.	40.
10/24/01		46.	46.	50.	39.
10/25/01		31.	34.	38.	27.*
10/26/01		32.	33.	35.	26.*
10/27/01		34.	33.	39.	28.*

\* VALUES OUTSIDE OF THE PROTOCOL SPECIFIED RANGE OF 30-60% RELATIVE HUMIDITY

INHALATION TABLE 2  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

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DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
10/28/01		32.	33.	38.	26.*
10/29/01		34.	35.	39.	28.*
10/30/01		39.	37.	42.	30.
10/31/01		35.	35.	37.	28.*
11/01/01		41.	38.	41.	33.
11/02/01		46.	43.	47.	38.
11/03/01		37.	35.	40.	29.*
11/04/01		40.	35.	40.	31.
11/05/01		40.	34.	38.	29.*
11/06/01		40.	37.	37.	30.
11/07/01		40.	36.	38.	31.
11/08/01		42.	37.	42.	32.
11/09/01		39.	36.	41.	30.
11/10/01		41.	39.	42.	32.
11/11/01		41.	38.	43.	32.
11/12/01		42.	40.	41.	34.
11/13/01		45.	41.	43.	34.
11/14/01		42.	39.	43.	33.
11/15/01		43.	39.	45.	39.
11/16/01		44.	45.	46.	40.
11/17/01		42.	41.	45.	34.
11/18/01		42.	44.	46.	36.
11/19/01		43.	42.	44.	36.
11/20/01		41.	40.	42.	34.
11/21/01		41.	42.	47.	39.
11/22/01		40.	43.	48.	37.
11/23/01		42.	46.	49.	33.

\* VALUES OUTSIDE OF THE PROTOCOL SPECIFIED RANGE OF 30-60% RELATIVE HUMIDITY

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
11/24/01		42.	44.	47.	34.
11/25/01		45.	42.	50.	37.
11/26/01		41.	41.	44.	35.
11/27/01		44.	41.	49.	39.
11/28/01		40.	41.	47.	33.
11/29/01		45.	46.	51.	37.
11/30/01		45.	46.	49.	38.
12/01/01		41.	41.	45.	37.
12/02/01		42.	41.	44.	37.
12/03/01		39.	41.	45.	36.
12/04/01		47.	40.	47.	33.
12/05/01		42.	43.	45.	33.
12/06/01		42.	41.	39.	33.
12/07/01		42.	41.	39.	34.
12/08/01		40.	40.	37.	34.
12/09/01		38.	39.	38.	33.
12/10/01		37.	39.	37.	31.
12/11/01		39.	39.	37.	32.
12/12/01		42.	45.	40.	35.
12/13/01		46.	46.	48.	38.
12/14/01		43.	44.	48.	38.
12/15/01		34.	42.	48.	41.
12/16/01		33.	43.	47.	41.
12/17/01		45.	45.	53.	42.
12/18/01		35.	43.	48.	35.
12/19/01		37.	43.	47.	40.
12/20/01		34.	41.	46.	36.

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3722 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
12/21/01		32.	41.	48.	41.
12/22/01		33.	44.	49.	42.
12/23/01		39.	46.	51.	35.
12/24/01		36.	45.	50.	34.
12/25/01		33.	41.	43.	33.
12/26/01		31.	39.	44.	33.
12/27/01		34.	43.	50.	42.
12/28/01		39.	43.	49.	43.
12/29/01		36.	45.	51.	38.
12/30/01		40.	45.	50.	39.
12/31/01		40.	43.	46.	38.
01/01/02		38.	40.	46.	38.
01/02/02		44.	44.	49.	43.
01/03/02		49.	48.	51.	44.
01/04/02		47.	45.	51.	31.
01/05/02		47.	47.	48.	35.
01/06/02		46.	45.	48.	36.
01/07/02		47.	41.	45.	38.
01/08/02		32.	43.	45.	35.
01/09/02		34.	42.	46.	40.
01/10/02		34.	43.	45.	39.
01/11/02		35.	44.	45.	39.
01/12/02		35.	42.	44.	34.
01/13/02		34.	41.	47.	35.
01/14/02		36.	44.	47.	35.
01/15/02		40.	40.	43.	33.
01/16/02		40.	39.	43.	32.

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3723 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
01/17/02		37.	41.	45.	37.
01/18/02		36.	41.	42.	37.
01/19/02		34.	42.	46.	33.
01/20/02		36.	43.	43.	33.
01/21/02		39.	43.	43.	36.
01/22/02		40.	41.	44.	34.
01/23/02		39.	42.	45.	36.
01/24/02		34.	44.	44.	38.
01/25/02		35.	44.	46.	32.
01/26/02		37.	44.	48.	34.
01/27/02		38.	42.	44.	37.
01/28/02		41.	42.	45.	36.
01/29/02		41.	44.	47.	38.
01/30/02		38.	45.	45.	36.
01/31/02		40.	46.	48.	34.
02/01/02		42.	45.	46.	36.
02/02/02		40.	43.	44.	36.
02/03/02		43.	44.	47.	37.
02/04/02		33.	42.	45.	38.
02/05/02		34.	43.	44.	33.
02/06/02		38.	42.	47.	33.
02/07/02		42.	45.	48.	37.
02/08/02		41.	45.	45.	38.
02/09/02		40.	42.	46.	36.
02/10/02		40.	47.	49.	39.
02/11/02		35.	44.	45.	33.
02/12/02		40.	45.	50.	35.

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3724 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
02/13/02		42.	50.	50.	37.
02/14/02		38.	45.	44.	36.
02/15/02		43.	45.	48.	37.
02/16/02		37.	43.	46.	36.
02/17/02		36.	43.	46.	34.
02/18/02		36.	44.	47.	33.
02/19/02		40.	47.	46.	37.
02/20/02		45.	51.	49.	41.
02/21/02		41.	44.	46.	35.
02/22/02		38.	45.	48.	40.
02/23/02		36.	44.	44.	35.
02/24/02		38.	45.	45.	34.
02/25/02		38.	43.	42.	34.
02/26/02		35.	42.	42.	34.
02/27/02		39.	46.	47.	35.
02/28/02		31.	41.	43.	33.
03/01/02		34.	42.	44.	29.*
03/02/02		35.	45.	46.	35.
03/03/02		34.	46.	42.	35.
03/04/02		34.	44.	44.	36.
03/05/02		35.	40.	43.	32.
03/06/02		36.	46.	48.	37.
03/07/02		34.	44.	45.	31.
03/08/02		34.	44.	46.	30.
03/09/02		37.	46.	44.	32.
03/10/02		36.	45.	44.	34.
03/11/02		35.	43.	46.	33.

VALUES OUTSIDE OF THE PROTOCOL SPECIFIED RANGE OF 30-60% RELATIVE HUMIDITY

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3725 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
03/12/02		34.	41.	44.	33.
03/13/02		37.	50.	50.	40.
03/14/02		34.	47.	46.	35.
03/15/02		42.	47.	45.	37.
03/16/02		35.	44.	44.	36.
03/17/02		36.	44.	45.	37.
03/18/02		35.	44.	46.	35.
03/19/02		34.	44.	46.	33.
03/20/02		36.	49.	48.	33.
03/21/02		35.	45.	47.	34.
03/22/02		35.	44.	44.	36.
03/23/02		38.	50.	53.	38.
03/24/02		34.	44.	46.	36.
03/25/02		33.	44.	46.	36.
03/26/02		35.	44.	47.	35.
03/27/02		41.	56.	52.	38.
03/28/02		36.	46.	44.	36.
03/29/02		36.	41.	44.	35.
03/30/02		32.	42.	44.	36.
03/31/02		33.	43.	45.	35.
04/01/02		33.	43.	45.	34.
04/02/02		36.	42.	45.	33.
04/03/02		34.	42.	45.	35.
04/04/02		36.	43.	46.	36.
04/05/02		32.	43.	47.	37.
04/06/02		33.	43.	48.	38.
04/07/02		34.	45.	48.	35.

INHALATION TABLE 2  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3726 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
04/08/02		36.	45.	45.	35.
04/09/02		40.	45.	45.	38.
04/10/02		35.	43.	46.	37.
04/11/02		34.	45.	47.	37.
04/12/02		36.	45.	48.	38.
04/13/02		37.	44.	46.	34.
04/14/02		39.	45.	46.	35.
04/15/02		41.	45.	46.	38.
04/16/02		43.	43.	46.	38.
04/17/02		38.	43.	45.	35.
04/18/02		37.	43.	47.	37.
04/19/02		38.	45.	48.	34.
04/20/02		34.	43.	41.	33.
04/21/02		35.	41.	42.	35.
04/22/02		37.	41.	44.	34.
04/23/02		34.	43.	45.	35.
04/24/02		37.	40.	45.	34.
04/25/02		35.	43.	46.	31.
04/26/02		35.	43.	43.	33.
04/27/02		34.	43.	44.	34.
04/28/02		40.	43.	45.	34.
04/29/02		32.	43.	46.	37.
04/30/02		34.	44.	46.	33.
05/01/02		32.	45.	45.	34.
05/02/02		38.	45.	45.	34.
05/03/02		35.	44.	45.	37.
05/04/02		37.	43.	46.	36.

INHALATION TABLE 2  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER RELATIVE HUMIDITY [%]

3727 of 3891

DATE	GROUP :	0 PPM	500 PPM	1000 PPM	2500 PPM
05/05/02		32.	45.	47.	38.
05/06/02		36.	44.	47.	34.
05/07/02		39.	45.	48.	33.
05/08/02		37.	44.	44.	34.
05/09/02		41.	47.	46.	39.
05/10/02		34.	43.	46.	37.
05/11/02		30.	44.	46.	39.
05/12/02		36.	45.	55.	38.
05/13/02		35.	49.	47.	35.
05/14/02		34.	46.	45.	37.
05/15/02		33.	43.	44.	36.
05/16/02		38.	42.	46.	35.
05/17/02		31.	42.	46.	41.
05/18/02		32.	43.	49.	36.
05/19/02		32.	45.	49.	34.
05/20/02		34.	44.	45.	36.
05/21/02		34.	43.	44.	36.
05/22/02		34.	41.	43.	34.
05/23/02		35.	42.	45.	37.
05/24/02		37.	41.	46.	36.
05/25/02		33.	44.	46.	34.
05/26/02		35.	43.	43.	36.
05/27/02		37.	42.	43.	36.
05/28/02		40.	39.	42.	32.
05/29/02		42.	40.	44.	34.
05/30/02		45.	39.	42.	32.
GRAND MEAN		39.	43.	45.	35.
S.D.		4.5	3.3	3.6	3.3
C.V. (%)		11.6	7.7	8.2	9.3
N		269	269	269	269

PINHv4.02  
 06/17/2002  
 R:10/20/2003

INHALATION TABLE 3  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
09/04/01		458.	448.	452.	454.
09/05/01		456.	448.	453.	456.
09/06/01		458.	449.	452.	460.
09/07/01		468.	470.	464.	467.
09/08/01		471.	466.	465.	469.
09/09/01		472.	464.	465.	456.
09/10/01		476.	469.	468.	459.
09/11/01		475.	469.	464.	461.
09/12/01		464.	458.	445.	449.
09/13/01		454.	451.	454.	459.
09/14/01		451.	457.	453.	459.
09/15/01		452.	457.	448.	458.
09/16/01		452.	456.	449.	457.
09/17/01		452.	457.	450.	459.
09/18/01		457.	452.	462.	455.
09/19/01		461.	456.	467.	452.
09/20/01		463.	460.	467.	454.
09/21/01		451.	454.	460.	451.
09/22/01		450.	455.	463.	439.
09/23/01		449.	458.	461.	442.
09/24/01		447.	456.	461.	442.
09/25/01		439.	452.	458.	441.
09/26/01		443.	455.	456.	457.
09/27/01		468.	468.	471.	456.
09/28/01		473.	458.	454.	453.
09/29/01		472.	458.	451.	449.
09/30/01		473.	458.	451.	448.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

3729 of 3891

DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
10/01/01		473.	460.	452.	450.
10/02/01		462.	454.	444.	444.
10/03/01		460.	454.	448.	450.
10/04/01		459.	454.	459.	448.
10/05/01		460.	457.	459.	448.
10/06/01		472.	454.	459.	448.
10/07/01		473.	452.	450.	444.
10/08/01		474.	457.	455.	448.
10/09/01		473.	447.	479.	442.
10/10/01		474.	433.	475.	438.
10/11/01		476.	427.	477.	467.
10/12/01		481.	411.	477.	483.
10/13/01		475.	452.	478.	484.
10/14/01		475.	473.	475.	450.
10/15/01		475.	471.	475.	472.
10/16/01		475.	447.	457.	458.
10/17/01		479.	449.	457.	471.
10/18/01		467.	451.	460.	475.
10/19/01		464.	451.	458.	474.
10/20/01		463.	431.	434.	443.
10/21/01		461.	421.	426.	419.
10/22/01		462.	424.	429.	450.
10/23/01		467.	435.	452.	492.
10/24/01		465.	447.	465.	501.
10/25/01		464.	453.	470.	506.
10/26/01		465.	456.	470.	505.
10/27/01		466.	457.	471.	504.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
10/28/01		466.	455.	472.	493.
10/29/01		466.	457.	471.	499.
10/30/01		465.	456.	471.	505.
10/31/01		463.	446.	470.	504.
11/01/01		465.	435.	470.	479.
11/02/01		464.	436.	472.	478.
11/03/01		461.	440.	479.	476.
11/04/01		461.	441.	484.	470.
11/05/01		462.	443.	484.	475.
11/06/01		462.	447.	491.	504.
11/07/01		463.	447.	478.	469.
11/08/01		462.	442.	472.	462.
11/09/01		464.	444.	475.	506.
11/10/01		462.	444.	475.	504.
11/11/01		463.	444.	476.	512.
11/12/01		461.	446.	475.	518.
11/13/01		458.	444.	476.	448.
11/14/01		454.	442.	473.	418.
11/15/01		456.	439.	472.	419.
11/16/01		445.	439.	471.	418.
11/17/01		449.	442.	475.	418.
11/18/01		450.	442.	473.	417.
11/19/01		448.	444.	475.	422.
11/20/01		450.	425.	501.	413.
11/21/01		449.	422.	499.	417.
11/22/01		453.	421.	447.	417.
11/23/01		456.	421.	465.	415.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
11/24/01		452.	420.	479.	415.
11/25/01		453.	420.	491.	414.
11/26/01		452.	446.	521.	426.
11/27/01		451.	444.	524.	421.
11/28/01		456.	450.	453.	445.
11/29/01		458.	436.	482.	437.
11/30/01		459.	433.	484.	439.
12/01/01		458.	440.	491.	423.
12/02/01		458.	442.	495.	419.
12/03/01		459.	442.	497.	455.
12/04/01		455.	441.	432.	475.
12/05/01		458.	439.	490.	489.
12/06/01		458.	436.	505.	493.
12/07/01		464.	440.	502.	454.
12/08/01		465.	442.	501.	447.
12/09/01		476.	443.	490.	479.
12/10/01		478.	444.	465.	522.
12/11/01		478.	444.	468.	529.
12/12/01		479.	444.	469.	514.
12/13/01		479.	443.	470.	471.
12/14/01		476.	442.	469.	452.
12/15/01		479.	435.	457.	448.
12/16/01		481.	436.	457.	446.
12/17/01		476.	435.	454.	447.
12/18/01		478.	434.	455.	450.
12/19/01		477.	435.	457.	446.
12/20/01		473.	435.	456.	447.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
12/21/01		473.	436.	459.	448.
12/22/01		474.	437.	459.	448.
12/23/01		471.	433.	457.	445.
12/24/01		457.	435.	459.	437.
12/25/01		462.	437.	459.	444.
12/26/01		464.	436.	459.	446.
12/27/01		461.	433.	447.	442.
12/28/01		461.	433.	453.	445.
12/29/01		462.	434.	449.	445.
12/30/01		452.	432.	457.	438.
12/31/01		450.	432.	458.	440.
01/01/02		452.	433.	459.	443.
01/02/02		452.	434.	460.	445.
01/03/02		451.	428.	449.	442.
01/04/02		451.	429.	451.	443.
01/05/02		448.	430.	450.	441.
01/06/02		449.	430.	450.	442.
01/07/02		448.	430.	449.	441.
01/08/02		446.	427.	450.	442.
01/09/02		448.	427.	451.	442.
01/10/02		447.	428.	454.	442.
01/11/02		448.	429.	455.	459.
01/12/02		447.	426.	454.	457.
01/13/02		447.	426.	454.	448.
01/14/02		448.	428.	445.	445.
01/15/02		448.	428.	448.	446.
01/16/02		448.	429.	449.	446.

SLPM = STANDARD LITERS PER MINUTE

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INHALATION TABLE 3  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
01/17/02		456.	441.	447.	465.
01/18/02		449.	507.	521.	520.
01/19/02		449.	451.	471.	477.
01/20/02		448.	437.	475.	475.
01/21/02		447.	436.	474.	473.
01/22/02		449.	437.	473.	476.
01/23/02		448.	437.	453.	458.
01/24/02		454.	437.	472.	456.
01/25/02		455.	438.	463.	469.
01/26/02		455.	437.	455.	480.
01/27/02		454.	437.	456.	479.
01/28/02		455.	436.	456.	480.
01/29/02		456.	435.	447.	479.
01/30/02		453.	436.	449.	479.
01/31/02		464.	437.	449.	458.
02/01/02		461.	437.	448.	462.
02/02/02		464.	436.	444.	462.
02/03/02		464.	434.	442.	465.
02/04/02		463.	435.	445.	464.
02/05/02		464.	437.	443.	463.
02/06/02		461.	435.	449.	454.
02/07/02		461.	434.	448.	460.
02/08/02		459.	432.	455.	470.
02/09/02		461.	433.	459.	469.
02/10/02		457.	430.	457.	464.
02/11/02		461.	434.	460.	470.
02/12/02		460.	432.	456.	470.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
02/13/02		459.	433.	454.	468.
02/14/02		460.	432.	454.	473.
02/15/02		458.	429.	453.	469.
02/16/02		460.	429.	454.	469.
02/17/02		458.	429.	453.	466.
02/18/02		460.	430.	467.	468.
02/19/02		460.	430.	467.	469.
02/20/02		456.	426.	462.	480.
02/21/02		456.	427.	464.	483.
02/22/02		459.	428.	466.	484.
02/23/02		464.	434.	472.	492.
02/24/02		464.	434.	472.	495.
02/25/02		461.	433.	473.	491.
02/26/02		446.	421.	463.	478.
02/27/02		449.	422.	482.	476.
02/28/02		451.	423.	487.	483.
03/01/02		451.	422.	490.	496.
03/02/02		449.	421.	488.	484.
03/03/02		447.	426.	487.	489.
03/04/02		450.	451.	482.	495.
03/05/02		443.	445.	485.	491.
03/06/02		430.	429.	483.	493.
03/07/02		411.	426.	481.	483.
03/08/02		415.	407.	446.	457.
03/09/02		413.	406.	444.	458.
03/10/02		414.	407.	446.	460.
03/11/02		414.	408.	448.	460.

SLPM = STANDARD LITERS PER MINUTE

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INHALATION TABLE 3  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
03/12/02		417.	408.	448.	460.
03/13/02		414.	408.	454.	472.
03/14/02		447.	413.	461.	464.
03/15/02		441.	415.	454.	472.
03/16/02		441.	411.	460.	466.
03/17/02		439.	411.	460.	467.
03/18/02		439.	411.	461.	468.
03/19/02		438.	411.	461.	466.
03/20/02		437.	409.	457.	470.
03/21/02		439.	408.	457.	469.
03/22/02		440.	410.	457.	475.
03/23/02		436.	406.	457.	473.
03/24/02		437.	406.	459.	474.
03/25/02		444.	412.	466.	480.
03/26/02		438.	408.	465.	476.
03/27/02		442.	408.	463.	469.
03/28/02		420.	432.	446.	440.
03/29/02		419.	423.	441.	465.
03/30/02		418.	414.	440.	484.
03/31/02		420.	413.	429.	453.
04/01/02		420.	414.	424.	444.
04/02/02		420.	414.	424.	444.
04/03/02		421.	413.	424.	448.
04/04/02		419.	414.	424.	445.
04/05/02		423.	416.	428.	447.
04/06/02		423.	416.	429.	443.
04/07/02		423.	415.	429.	446.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
04/08/02		422.	414.	428.	443.
04/09/02		418.	413.	426.	444.
04/10/02		420.	412.	428.	445.
04/11/02		420.	412.	426.	443.
04/12/02		422.	411.	425.	444.
04/13/02		426.	416.	430.	448.
04/14/02		424.	414.	429.	444.
04/15/02		425.	414.	430.	445.
04/16/02		413.	420.	433.	449.
04/17/02		413.	413.	429.	448.
04/18/02		413.	409.	413.	448.
04/19/02		410.	402.	412.	439.
04/20/02		412.	403.	412.	439.
04/21/02		412.	403.	422.	433.
04/22/02		410.	403.	426.	425.
04/23/02		412.	403.	425.	427.
04/24/02		412.	402.	425.	429.
04/25/02		401.	405.	424.	431.
04/26/02		401.	405.	424.	440.
04/27/02		402.	405.	426.	442.
04/28/02		407.	404.	423.	440.
04/29/02		407.	410.	425.	440.
04/30/02		419.	408.	424.	440.
05/01/02		423.	407.	428.	443.
05/02/02		429.	403.	429.	441.
05/03/02		431.	404.	430.	443.
05/04/02		432.	405.	431.	443.

SLPM = STANDARD LITERS PER MINUTE

INHALATION TABLE 3

PROJECT NO.:WIL-186013I  
SPONSOR:ACC

INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN CHAMBER VENTILATION RATE [SLPM]

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DATE	GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
05/05/02		430.	405.	431.	444.
05/06/02		430.	400.	430.	443.
05/07/02		430.	400.	430.	444.
05/08/02		433.	401.	431.	442.
05/09/02		425.	403.	433.	444.
05/10/02		423.	405.	432.	439.
05/11/02		430.	410.	439.	445.
05/12/02		425.	393.	435.	442.
05/13/02		425.	408.	434.	440.
05/14/02		425.	408.	434.	443.
05/15/02		427.	410.	436.	445.
05/16/02		433.	409.	434.	443.
05/17/02		435.	408.	436.	442.
05/18/02		435.	409.	436.	443.
05/19/02		436.	410.	437.	445.
05/20/02		431.	410.	438.	435.
05/21/02		429.	409.	437.	437.
05/22/02		427.	409.	437.	435.
05/23/02		420.	408.	436.	432.
05/24/02		421.	406.	434.	434.
05/25/02		420.	454.	459.	458.
05/26/02		422.	414.	433.	430.
05/27/02		422.	414.	430.	428.
05/28/02		421.	413.	428.	427.
05/29/02		419.	411.	426.	428.
05/30/02		416.	410.	427.	431.
GRAND MEAN		448.	431.	456.	457.
S.D.		19.6	18.5	20.4	22.5
C.V. (%)		4.4	4.3	4.5	4.9
N		269	269	269	269

SLPM = STANDARD LITERS PER MINUTE

PINhv4.02  
06/17/2002  
R:10/20/2003

TABLE 4  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
CHAMBER HOMOGENEITY

DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/29/01	CHAMBER 2, TARGET: 500 PPM			
	REFERENCE PORT	503		
	RIGHT UPPER REAR	497	(-)1.2	
	REFERENCE PORT	501		
	RIGHT UPPER REAR	502	(+)0.2	
	REFERENCE PORT	509		
	RIGHT UPPER REAR	499	(-)2.0	(-)1.0
	REFERENCE PORT	503		
	LEFT LOWER REAR	504	(+)0.2	
	REFERENCE PORT	510		
	LEFT LOWER REAR	506	(-)0.8	
	REFERENCE PORT	505		
	LEFT LOWER REAR	506	(+)0.2	(-)0.1
	REFERENCE PORT	508		
	RIGHT LOWER FRONT	494	(-)2.8	
	REFERENCE PORT	505		
	RIGHT LOWER FRONT	494	(-)2.2	

CONC. = CONCENTRATION  
CONCENTRATION IN: PPM

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TABLE 4  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 CHAMBER HOMOGENEITY

DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/29/01	CHAMBER 2, TARGET: 500 PPM			
	REFERENCE PORT	506		
	RIGHT LOWER FRONT	496	(-)2.0	(-)2.2
	REFERENCE PORT	502		
	LEFT UPPER FRONT	502	0	
	REFERENCE PORT	509		
	LEFT UPPER FRONT	497	(-)2.4	
	REFERENCE PORT	509		
	LEFT UPPER FRONT	493	(-)3.1	(-)1.8
8/30/01	CHAMBER 3, TARGET: 1000 PPM			
	REFERENCE PORT	1061		
	RIGHT UPPER REAR	1007	(-)5.1	
	REFERENCE PORT	1019		
	RIGHT UPPER REAR	1003	(-)1.6	
	REFERENCE PORT	1013		
	RIGHT UPPER REAR	993	(-)2.0	(-)2.9

CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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TABLE 4  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 CHAMBER HOMOGENEITY

DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/30/01	CHAMBER 3, TARGET: 1000 PPM			
	REFERENCE PORT	1006		
	LEFT LOWER REAR	998	(-)0.8	
	REFERENCE PORT	1028		
	LEFT LOWER REAR	997	(-)3.0	
	REFERENCE PORT	1020		
	LEFT LOWER REAR	1000	(-)2.0	(-)1.9
	REFERENCE PORT	1027		
	RIGHT LOWER FRONT	996	(-)3.0	
	REFERENCE PORT	1027		
	RIGHT LOWER FRONT	996	(-)3.6	
	REFERENCE PORT	1022		
	RIGHT LOWER FRONT	985	(-)4.3	(-)3.6
	REFERENCE PORT	1034		
	LEFT UPPER FRONT	990	(-)3.7	
	REFERENCE PORT	1051		
	LEFT UPPER FRONT	1012	(-)2.6	

CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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TABLE 4  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 CHAMBER HOMOGENEITY

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DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/30/01	CHAMBER 3, TARGET: 1000			
	REFERENCE PORT	1012		
	LEFT UPPER FRONT	997	(-)1.5	(-)2.6
8/31/01	CHAMBER 4, TARGET: 2500			
	REFERENCE PORT	2608		
	RIGHT UPPER REAR	2505	(-)3.9	
9/5/01	REFERENCE PORT	2549		
	RIGHT UPPER REAR	2519	(-)1.2	
	REFERENCE PORT	2548		
	RIGHT UPPER REAR	2531	(-)0.7	(-)1.9
8/31/01	REFERENCE PORT	2598		
	LEFT LOWER REAR	2532	(-)2.5	
9/5/01	REFERENCE PORT	2539		
	LEFT LOWER REAR	2532	(-)0.3	
	REFERENCE PORT	2538		
	LEFT LOWER REAR	2556	(+)0.7	(-)0.7

CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

PROJECT NO.: WIL-186013  
Sponsor:ACC

TABLE 4  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
CHAMBER HOMOGENEITY

DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/31/01	CHAMBER 4, TARGET: 2500			
	REFERENCE PORT	2596		
	RIGHT LOWER FRONT	2500	(-)3.7	
9/5/01	REFERENCE PORT	2551		
	RIGHT LOWER FRONT	2496	(-)2.2	
	REFERENCE PORT	2552		
	RIGHT LOWER FRONT	2537	(-)0.6	(-)2.2

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CONC. = CONCENTRATION  
CONCENTRATION IN: PPM

PROJECT NO.: WIL-186013  
Sponsor:ACC

TABLE 4  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
CHAMBER HOMOGENEITY

DATE	SAMPLING LOCATION	CONC.	% FROM REFERENCE	MEAN %
8/31/01	REFERENCE PORT	2595		
	LEFT UPPER FRONT	2516	(-)3.0	
9/5/01	REFERENCE PORT	2538		
	LEFT UPPER FRONT	2517	(-)0.8	
	REFERENCE PORT	2548		
	LEFT UPPER FRONT	2544	(-)0.2	(-)1.2

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CONC. = CONCENTRATION  
CONCENTRATION IN: PPM

PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 1

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 04-SEP-01								
MEAN		0.		506.		1016.		2502.
SD		0.0		4.8		11.1		20.6
CV(%)		0.00		0.95		1.10		0.82
N		10		10		10		10
EXPOSURE ON 05-SEP-01								
MEAN		0.		506.		1027.		2508.
SD		0.0		5.8		11.0		8.5
CV(%)		0.00		1.15		1.07		0.34
N		10		10		10		10
EXPOSURE ON 06-SEP-01								
MEAN		0.		504.		1025.		2508.
SD		0.0		3.4		10.4		18.1
CV(%)		0.00		0.67		1.01		0.72
N		10		10		10		10
EXPOSURE ON 07-SEP-01								
MEAN		0.		483.		1002.		2461.
SD		0.0		4.0		7.3		7.9
CV(%)		0.00		0.84		0.73		0.32
N		10		10		10		10
EXPOSURE ON 08-SEP-01								
MEAN		0.		489.		998.		2450.
SD		0.0		3.9		7.0		7.9
CV(%)		0.00		0.80		0.71		0.32
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 2

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 09-SEP-01								
MEAN		0.		486.		995.		2494.
SD		0.0		4.7		11.2		44.5
CV(%)		0.00		0.96		1.12		1.79
N		10		10		10		10
EXPOSURE ON 10-SEP-01								
MEAN		0.		487.		989.		2475.
SD		0.0		2.9		9.8		12.8
CV(%)		0.00		0.60		0.99		0.52
N		10		10		10		10
EXPOSURE ON 11-SEP-01								
MEAN		0.		486.		978.		2491.
SD		0.0		3.8		12.6		12.6
CV(%)		0.00		0.77		1.28		0.50
N		10		10		10		9
EXPOSURE ON 12-SEP-01								
MEAN		0.		499.		958.		2575.
SD		0.0		4.4		15.5		16.4
CV(%)		0.00		0.88		1.62		0.64
N		10		10		10		10
EXPOSURE ON 13-SEP-01								
MEAN		0.		511.		1010.		2525.
SD		0.0		2.4		12.2		13.0
CV(%)		0.00		0.46		1.21		0.51
N		10		9		9		9

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 14-SEP-01								
MEAN		0.		500.		938.		2501.
SD		0.0		3.9		44.2		13.2
CV(%)		0.00		0.79		4.72		0.53
N		10		10		10		10
EXPOSURE ON 15-SEP-01								
MEAN		0.		501.		1051.		2488.
SD		0.0		3.4		23.7		38.5
CV(%)		0.00		0.69		2.25		1.55
N		10		10		10		10
EXPOSURE ON 16-SEP-01								
MEAN		0.		496.		1020.		2493.
SD		0.0		6.0		7.0		7.7
CV(%)		0.00		1.22		0.69		0.31
N		10		10		10		10
EXPOSURE ON 17-SEP-01								
MEAN		0.		490.		999.		2461.
SD		0.0		24.5		63.7		127.1
CV(%)		0.00		5.00		6.37		5.16
N		10		10		10		10
EXPOSURE ON 18-SEP-01								
MEAN		0.		500.		1000.		2512.
SD		0.0		2.6		11.1		61.0
CV(%)		0.00		0.51		1.11		2.43
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 19-SEP-01								
MEAN		0.		495.		989.		2513.
SD		0.0		7.2		6.5		15.6
CV(%)		0.00		1.46		0.66		0.62
N		10		10		10		10
EXPOSURE ON 20-SEP-01								
MEAN		0.		493.		988.		2502.
SD		0.0		6.1		8.9		26.8
CV(%)		0.00		1.24		0.90		1.07
N		10		10		10		10
EXPOSURE ON 21-SEP-01								
MEAN		0.		495.		994.		2516.
SD		0.0		4.2		12.7		26.7
CV(%)		0.00		0.84		1.28		1.06
N		10		10		10		9
EXPOSURE ON 22-SEP-01								
MEAN		0.		492.		986.		2576.
SD		0.0		3.7		6.6		3.7
CV(%)		0.00		0.75		0.67		0.15
N		10		10		10		10
EXPOSURE ON 23-SEP-01								
MEAN		0.		495.		989.		2567.
SD		0.0		3.1		9.9		9.6
CV(%)		0.00		0.62		1.00		0.37
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 24-SEP-01								
MEAN		0.		497.		980.		2562.
SD		0.0		3.2		49.3		10.7
CV(%)		0.00		0.64		5.03		0.42
N		10		10		10		10
EXPOSURE ON 25-SEP-01								
MEAN		0.		500.		999.		2585.
SD		0.0		6.5		5.7		26.8
CV(%)		0.00		1.29		0.57		1.04
N		10		10		10		10
EXPOSURE ON 26-SEP-01								
MEAN		0.		500.		1007.		2495.
SD		0.0		8.5		12.3		35.7
CV(%)		0.00		1.70		1.22		1.43
N		10		10		10		10
EXPOSURE ON 27-SEP-01								
MEAN		0.		485.		967.		2460.
SD		0.0		3.5		5.1		26.0
CV(%)		0.00		0.72		0.53		1.06
N		10		10		10		10
EXPOSURE ON 28-SEP-01								
MEAN		0.		492.		1008.		2447.
SD		0.0		3.8		4.2		34.2
CV(%)		0.00		0.78		0.41		1.40
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 29-SEP-01								
MEAN		0.		490.		1028.		2528.
SD		0.0		3.2		14.7		15.9
CV(%)		0.00		0.65		1.43		0.63
N		10		10		10		10
EXPOSURE ON 30-SEP-01								
MEAN		0.		497.		1005.		2553.
SD		0.0		4.8		8.9		10.6
CV(%)		0.00		0.97		0.89		0.42
N		10		10		10		10
EXPOSURE ON 01-OCT-01								
MEAN		0.		496.		1011.		2551.
SD		0.0		5.5		10.7		9.6
CV(%)		0.00		1.11		1.06		0.38
N		10		10		10		10
EXPOSURE ON 02-OCT-01								
MEAN		0.		501.		1028.		2557.
SD		0.0		4.4		10.8		40.6
CV(%)		0.00		0.88		1.05		1.59
N		10		10		10		10
EXPOSURE ON 03-OCT-01								
MEAN		0.		498.		1015.		2477.
SD		0.0		4.2		11.6		22.0
CV(%)		0.00		0.85		1.14		0.89
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 04-OCT-01								
MEAN		0.		491.		995.		2445.
SD		0.0		4.5		5.9		53.0
CV(%)		0.00		0.91		0.59		2.17
N		10		10		10		10
EXPOSURE ON 05-OCT-01								
MEAN		0.		489.		990.		2545.
SD		0.0		6.3		20.6		48.6
CV(%)		0.00		1.28		2.08		1.91
N		10		10		10		10
EXPOSURE ON 06-OCT-01								
MEAN		0.		495.		998.		2589.
SD		0.0		5.3		14.3		42.7
CV(%)		0.00		1.06		1.43		1.65
N		10		10		10		10
EXPOSURE ON 07-OCT-01								
MEAN		0.		508.		1013.		2610.
SD		0.0		3.5		41.8		40.4
CV(%)		0.00		0.70		4.13		1.55
N		10		10		10		10
EXPOSURE ON 08-OCT-01								
MEAN		0.		579.		1092.		2443.
SD		0.0		23.4		5.7		77.5
CV(%)		0.00		4.05		0.52		3.17
N		10		3		3		3

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 09-OCT-01								
MEAN		0.		498.		1044.		2518.
SD		0.0		12.8		18.0		79.1
CV(%)		0.00		2.57		1.72		3.14
N		10		10		10		10
EXPOSURE ON 10-OCT-01								
MEAN		0.		485.		1022.		2518.
SD		0.0		26.8		48.9		155.2
CV(%)		0.00		5.52		4.79		6.17
N		10		10		10		10
EXPOSURE ON 11-OCT-01								
MEAN		0.		480.		1049.		2614.
SD		0.0		11.7		8.0		61.1
CV(%)		0.00		2.43		0.76		2.34
N		10		10		10		10
EXPOSURE ON 12-OCT-01								
MEAN		0.		451.		957.		2573.
SD		0.0		15.4		7.4		65.8
CV(%)		0.00		3.42		0.77		2.56
N		10		10		10		10
EXPOSURE ON 13-OCT-01								
MEAN		0.		470.		944.		2389.
SD		0.0		9.8		9.1		66.5
CV(%)		0.00		2.08		0.97		2.78
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 14-OCT-01								
MEAN		0.		472.		945.		2436.
SD		0.0		3.0		10.7		90.1
CV(%)		0.00		0.65		1.14		3.70
N		10		10		10		10
EXPOSURE ON 15-OCT-01								
MEAN		0.		480.		951.		2479.
SD		0.0		8.9		11.5		40.5
CV(%)		0.00		1.84		1.21		1.63
N		10		10		10		10
EXPOSURE ON 16-OCT-01								
MEAN		0.		505.		981.		2621.
SD		0.0		14.7		21.0		119.7
CV(%)		0.00		2.91		2.14		4.57
N		10		10		10		10
EXPOSURE ON 17-OCT-01								
MEAN		0.		518.		997.		2579.
SD		0.0		4.7		8.6		127.9
CV(%)		0.00		0.91		0.87		4.96
N		10		10		10		10
EXPOSURE ON 18-OCT-01								
MEAN		0.		523.		997.		2558.
SD		0.0		3.5		11.2		66.1
CV(%)		0.00		0.67		1.12		2.59
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 19-OCT-01								
MEAN		0.		515.		1003.		2573.
SD		0.0		6.4		12.6		34.2
CV(%)		0.00		1.24		1.25		1.33
N		10		10		10		10
EXPOSURE ON 20-OCT-01								
MEAN		0.		494.		990.		2468.
SD		0.0		13.7		52.7		167.7
CV(%)		0.00		2.77		5.32		6.79
N		10		10		10		10
EXPOSURE ON 21-OCT-01								
MEAN		0.		517.		1042.		2465.
SD		0.0		12.8		12.9		95.6
CV(%)		0.00		2.47		1.24		3.88
N		10		10		10		10
EXPOSURE ON 22-OCT-01								
MEAN		0.		512.		1036.		2481.
SD		0.0		5.6		9.2		237.3
CV(%)		0.00		1.10		0.89		9.56
N		10		10		10		10
EXPOSURE ON 23-OCT-01								
MEAN		0.		523.		1029.		2685.
SD		0.0		9.0		43.7		98.5
CV(%)		0.00		1.72		4.24		3.67
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 24-OCT-01								
MEAN		0.		512.		1015.		2654.
SD		0.0		8.2		11.5		52.9
CV(%)		0.00		1.60		1.13		1.99
N		10		10		10		10
EXPOSURE ON 25-OCT-01								
MEAN		0.		522.		1026.		2642.
SD		0.0		5.6		9.2		55.8
CV(%)		0.00		1.07		0.90		2.11
N		10		10		10		10
EXPOSURE ON 26-OCT-01								
MEAN		0.		524.		1032.		2498.
SD		0.0		5.0		9.6		92.4
CV(%)		0.00		0.95		0.93		3.70
N		10		10		10		10
EXPOSURE ON 27-OCT-01								
MEAN		0.		527.		1039.		2509.
SD		0.0		8.2		14.9		63.7
CV(%)		0.00		1.55		1.44		2.54
N		10		10		10		10
EXPOSURE ON 28-OCT-01								
MEAN		0.		534.		1050.		2510.
SD		0.0		9.0		9.2		217.9
CV(%)		0.00		1.69		0.87		8.68
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 29-OCT-01								
MEAN		0.		528.		1052.		2764.
SD		0.0		4.8		9.7		99.4
CV(%)		0.00		0.92		0.92		3.60
N		10		10		10		10
EXPOSURE ON 30-OCT-01								
MEAN		0.		523.		1039.		2734.
SD		0.0		12.4		6.7		81.9
CV(%)		0.00		2.38		0.64		3.00
N		10		10		10		10
EXPOSURE ON 31-OCT-01								
MEAN		0.		466.		979.		2445.
SD		0.0		15.4		22.4		57.5
CV(%)		0.00		3.31		2.29		2.35
N		10		10		10		9
EXPOSURE ON 01-NOV-01								
MEAN		0.		519.		1039.		2558.
SD		0.0		5.7		10.1		83.0
CV(%)		0.00		1.10		0.97		3.25
N		10		10		10		10
EXPOSURE ON 02-NOV-01								
MEAN		0.		495.		1010.		2448.
SD		0.0		7.2		9.2		89.6
CV(%)		0.00		1.45		0.91		3.66
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 03-NOV-01								
MEAN		0.		523.		1056.		2524.
SD		0.0		11.6		28.1		142.0
CV(%)		0.00		2.22		2.66		5.63
N		10		10		10		10
EXPOSURE ON 04-NOV-01								
MEAN		0.		513.		1018.		2580.
SD		0.0		7.8		6.2		602.5
CV(%)		0.00		1.53		0.61		23.35
N		10		10		10		10
EXPOSURE ON 05-NOV-01								
MEAN		0.		493.		981.		2370.
SD		0.0		3.3		11.6		205.4
CV(%)		0.00		0.67		1.18		8.67
N		10		10		10		10
EXPOSURE ON 06-NOV-01								
MEAN		0.		487.		971.		2610.
SD		0.0		7.9		10.5		55.3
CV(%)		0.00		1.62		1.08		2.12
N		10		10		10		9
EXPOSURE ON 07-NOV-01								
MEAN		0.		513.		1037.		2491.
SD		0.0		6.7		8.1		90.9
CV(%)		0.00		1.31		0.78		3.65
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 08-NOV-01								
MEAN		0.		512.		1031.		2452.
SD		0.0		4.6		5.8		50.3
CV(%)		0.00		0.89		0.56		2.05
N		10		10		10		10
EXPOSURE ON 09-NOV-01								
MEAN		0.		517.		1041.		2676.
SD		0.0		5.2		8.1		110.6
CV(%)		0.00		1.00		0.78		4.13
N		10		10		10		10
EXPOSURE ON 10-NOV-01								
MEAN		0.		480.		979.		2810.
SD		0.0		5.8		18.0		419.9
CV(%)		0.00		1.20		1.84		14.94
N		10		10		10		10
EXPOSURE ON 11-NOV-01								
MEAN		0.		481.		994.		2742.
SD		0.0		8.4		17.0		221.6
CV(%)		0.00		1.74		1.71		8.08
N		10		10		10		10
EXPOSURE ON 12-NOV-01								
MEAN		0.		521.		1070.		2525.
SD		0.0		7.5		10.0		68.7
CV(%)		0.00		1.44		0.93		2.72
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 13-NOV-01								
MEAN		0.		482.		978.		2291.
SD		0.0		7.2		9.9		146.9
CV(%)		0.00		1.50		1.01		6.41
N		10		10		10		10
EXPOSURE ON 14-NOV-01								
MEAN		0.		513.		1039.		2541.
SD		0.0		2.7		7.1		31.0
CV(%)		0.00		0.52		0.68		1.22
N		10		10		10		10
EXPOSURE ON 15-NOV-01								
MEAN		0.		510.		1029.		2525.
SD		0.0		4.4		7.6		22.4
CV(%)		0.00		0.87		0.74		0.89
N		10		10		10		10
EXPOSURE ON 16-NOV-01								
MEAN		0.		509.		1050.		2595.
SD		0.0		4.5		7.7		23.5
CV(%)		0.00		0.89		0.73		0.91
N		10		10		10		10
EXPOSURE ON 17-NOV-01								
MEAN		0.		484.		1008.		2505.
SD		0.0		10.3		9.7		36.4
CV(%)		0.00		2.12		0.96		1.45
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 18-NOV-01								
MEAN		0.		484.		1009.		2514.
SD		0.0		8.2		14.4		42.0
CV(%)		0.00		1.70		1.43		1.67
N		10		10		10		10
EXPOSURE ON 19-NOV-01								
MEAN		0.		505.		1032.		2537.
SD		0.0		7.0		8.3		26.0
CV(%)		0.00		1.38		0.80		1.03
N		10		10		10		10
EXPOSURE ON 20-NOV-01								
MEAN		0.		498.		1068.		2431.
SD		0.0		18.5		72.6		61.5
CV(%)		0.00		3.70		6.80		2.53
N		10		10		10		10
EXPOSURE ON 21-NOV-01								
MEAN		0.		504.		1005.		2420.
SD		0.0		4.5		29.5		51.5
CV(%)		0.00		0.90		2.94		2.13
N		10		10		10		10
EXPOSURE ON 22-NOV-01								
MEAN		0.		499.		983.		2476.
SD		0.0		5.3		75.3		47.5
CV(%)		0.00		1.05		7.66		1.92
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 23-NOV-01								
MEAN		0.		497.		1033.		2527.
SD		0.0		7.1		74.6		24.7
CV(%)		0.00		1.44		7.22		0.98
N		10		10		10		10
EXPOSURE ON 24-NOV-01								
MEAN		0.		495.		997.		2561.
SD		0.0		6.5		15.1		13.4
CV(%)		0.00		1.32		1.51		0.52
N		10		10		10		10
EXPOSURE ON 25-NOV-01								
MEAN		0.		497.		1055.		2450.
SD		0.0		7.8		30.3		13.9
CV(%)		0.00		1.56		2.87		0.57
N		10		10		10		10
EXPOSURE ON 26-NOV-01								
MEAN		0.		505.		1049.		2461.
SD		0.0		49.3		34.7		25.8
CV(%)		0.00		9.77		3.31		1.05
N		10		10		10		10
EXPOSURE ON 27-NOV-01								
MEAN		0.		487.		978.		2478.
SD		0.0		8.0		14.9		95.1
CV(%)		0.00		1.64		1.52		3.84
N		10		10		10		9

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 28-NOV-01								
MEAN		0.		488.		924.		2564.
SD		0.0		7.2		62.0		141.2
CV(%)		0.00		1.47		6.71		5.51
N		10		10		10		10
EXPOSURE ON 29-NOV-01								
MEAN		0.		476.		1031.		2492.
SD		0.0		16.3		67.8		13.3
CV(%)		0.00		3.43		6.58		0.53
N		10		10		10		10
EXPOSURE ON 30-NOV-01								
MEAN		0.		498.		1011.		2528.
SD		0.0		2.1		13.3		20.0
CV(%)		0.00		0.43		1.32		0.79
N		10		10		10		10
EXPOSURE ON 01-DEC-01								
MEAN		0.		500.		1066.		2484.
SD		0.0		7.4		16.1		47.3
CV(%)		0.00		1.47		1.51		1.91
N		10		10		10		10
EXPOSURE ON 02-DEC-01								
MEAN		0.		499.		1019.		2521.
SD		0.0		8.2		12.2		24.3
CV(%)		0.00		1.65		1.20		0.96
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 03-DEC-01								
MEAN		0.		497.		986.		2503.
SD		0.0		3.0		15.8		62.8
CV(%)		0.00		0.60		1.60		2.51
N		10		10		10		10
EXPOSURE ON 04-DEC-01								
MEAN		0.		469.		948.		2483.
SD		0.0		4.0		51.7		117.3
CV(%)		0.00		0.85		5.45		4.72
N		10		10		10		10
EXPOSURE ON 05-DEC-01								
MEAN		0.		498.		1095.		2522.
SD		0.0		5.3		42.6		42.5
CV(%)		0.00		1.07		3.89		1.68
N		10		10		10		10
EXPOSURE ON 06-DEC-01								
MEAN		0.		497.		1009.		2473.
SD		0.0		2.2		52.3		32.2
CV(%)		0.00		0.44		5.19		1.30
N		10		10		10		10
EXPOSURE ON 07-DEC-01								
MEAN		0.		471.		1009.		2462.
SD		0.0		4.8		48.2		97.4
CV(%)		0.00		1.02		4.78		3.96
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 20

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 08-DEC-01								
MEAN		0.		497.		1033.		2602.
SD		0.0		3.3		36.4		46.3
CV(%)		0.00		0.66		3.52		1.78
N		10		10		10		10
EXPOSURE ON 09-DEC-01								
MEAN		0.		495.		1070.		2523.
SD		0.0		9.8		58.9		142.6
CV(%)		0.00		1.99		5.51		5.65
N		10		10		10		10
EXPOSURE ON 10-DEC-01								
MEAN		0.		498.		1003.		2703.
SD		0.0		4.8		55.2		144.8
CV(%)		0.00		0.97		5.51		5.36
N		10		10		10		10
EXPOSURE ON 11-DEC-01								
MEAN		0.		496.		1019.		2553.
SD		0.0		7.5		30.9		46.0
CV(%)		0.00		1.51		3.04		1.80
N		10		10		10		10
EXPOSURE ON 12-DEC-01								
MEAN		0.		495.		1031.		2421.
SD		0.0		5.4		33.3		35.5
CV(%)		0.00		1.09		3.23		1.47
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 13-DEC-01								
MEAN		0.		484.		970.		2375.
SD		0.0		3.0		6.4		103.6
CV(%)		0.00		0.62		0.66		4.36
N		10		10		10		10
EXPOSURE ON 14-DEC-01								
MEAN		0.		483.		962.		2433.
SD		0.0		2.2		5.2		73.8
CV(%)		0.00		0.46		0.55		3.04
N		10		10		10		10
EXPOSURE ON 15-DEC-01								
MEAN		0.		504.		1008.		2509.
SD		0.0		11.5		14.5		21.1
CV(%)		0.00		2.29		1.44		0.84
N		10		10		10		10
EXPOSURE ON 16-DEC-01								
MEAN		0.		503.		1000.		2527.
SD		0.0		6.1		8.2		21.1
CV(%)		0.00		1.22		0.82		0.84
N		10		10		10		10
EXPOSURE ON 17-DEC-01								
MEAN		0.		493.		999.		2487.
SD		0.0		3.4		8.6		16.6
CV(%)		0.00		0.68		0.86		0.67
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 18-DEC-01								
MEAN		0.		505.		1010.		2491.
SD		0.0		8.4		9.0		23.5
CV(%)		0.00		1.66		0.89		0.94
N		10		10		10		10
EXPOSURE ON 19-DEC-01								
MEAN		0.		505.		1005.		2484.
SD		0.0		4.1		7.3		16.7
CV(%)		0.00		0.81		0.72		0.67
N		10		10		10		10
EXPOSURE ON 20-DEC-01								
MEAN		0.		508.		998.		2513.
SD		0.0		4.3		5.9		15.2
CV(%)		0.00		0.85		0.59		0.60
N		10		10		10		10
EXPOSURE ON 21-DEC-01								
MEAN		0.		506.		997.		2509.
SD		0.0		4.7		6.2		16.7
CV(%)		0.00		0.92		0.63		0.67
N		10		10		10		10
EXPOSURE ON 22-DEC-01								
MEAN		0.		505.		990.		2543.
SD		0.0		6.6		9.0		17.5
CV(%)		0.00		1.31		0.91		0.69
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 23-DEC-01								
MEAN		0.		512.		1005.		2525.
SD		0.0		40.6		29.3		17.9
CV(%)		0.00		7.92		2.92		0.71
N		10		10		10		10
EXPOSURE ON 24-DEC-01								
MEAN		0.		508.		1026.		2570.
SD		0.0		6.8		11.5		5.0
CV(%)		0.00		1.33		1.12		0.20
N		10		10		10		10
EXPOSURE ON 25-DEC-01								
MEAN		0.		515.		1014.		2567.
SD		0.0		6.8		9.0		22.0
CV(%)		0.00		1.33		0.89		0.86
N		10		10		10		10
EXPOSURE ON 26-DEC-01								
MEAN		0.		513.		1000.		2538.
SD		0.0		4.6		9.2		19.1
CV(%)		0.00		0.90		0.92		0.75
N		10		10		10		10
EXPOSURE ON 27-DEC-01								
MEAN		0.		503.		997.		2509.
SD		0.0		5.3		57.6		21.0
CV(%)		0.00		1.05		5.78		0.84
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 24

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 28-DEC-01								
MEAN		0.		510.		980.		2495.
SD		0.0		36.3		36.7		20.8
CV(%)		0.00		7.12		3.74		0.83
N		10		10		10		10
EXPOSURE ON 29-DEC-01								
MEAN		0.		504.		994.		2512.
SD		0.0		6.7		62.5		15.1
CV(%)		0.00		1.34		6.29		0.60
N		10		10		10		10
EXPOSURE ON 30-DEC-01								
MEAN		0.		510.		1009.		2545.
SD		0.0		5.3		5.2		25.7
CV(%)		0.00		1.04		0.52		1.01
N		10		10		10		10
EXPOSURE ON 31-DEC-01								
MEAN		0.		510.		998.		2533.
SD		0.0		3.3		6.6		16.0
CV(%)		0.00		0.65		0.66		0.63
N		10		10		10		10
EXPOSURE ON 01-JAN-02								
MEAN		0.		506.		992.		2520.
SD		0.0		9.0		6.0		23.7
CV(%)		0.00		1.78		0.61		0.94
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 25

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 02--JAN-02								
MEAN		0.		499.		993.		2523.
SD		0.0		7.9		6.2		13.8
CV(%)		0.00		1.58		0.62		0.55
N		10		10		10		10
EXPOSURE ON 03--JAN-02								
MEAN		0.		507.		1009.		2520.
SD		0.0		14.7		17.1		22.4
CV(%)		0.00		2.89		1.69		0.89
N		10		10		10		10
EXPOSURE ON 04--JAN-02								
MEAN		0.		504.		1015.		2532.
SD		0.0		3.3		9.7		6.9
CV(%)		0.00		0.66		0.95		0.27
N		10		10		10		10
EXPOSURE ON 05--JAN-02								
MEAN		0.		501.		1012.		2530.
SD		0.0		11.5		8.2		25.6
CV(%)		0.00		2.30		0.81		1.01
N		10		10		10		10
EXPOSURE ON 06--JAN-02								
MEAN		0.		497.		1003.		2507.
SD		0.0		10.2		4.4		13.7
CV(%)		0.00		2.04		0.44		0.55
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 07--JAN-02								
MEAN		0.		499.		999.		2505.
SD		0.0		5.5		8.3		14.0
CV(%)		0.00		1.11		0.83		0.56
N		10		10		10		10
EXPOSURE ON 08--JAN-02								
MEAN		0.		496.		995.		2522.
SD		0.0		12.2		15.7		16.3
CV(%)		0.00		2.46		1.58		0.65
N		10		10		10		10
EXPOSURE ON 09--JAN-02								
MEAN		0.		496.		991.		2507.
SD		0.0		6.9		5.6		13.2
CV(%)		0.00		1.39		0.57		0.53
N		10		10		10		10
EXPOSURE ON 10--JAN-02								
MEAN		0.		503.		995.		2519.
SD		0.0		7.0		6.4		13.2
CV(%)		0.00		1.39		0.65		0.52
N		10		10		10		10
EXPOSURE ON 11--JAN-02								
MEAN		0.		506.		991.		2497.
SD		0.0		5.7		5.4		16.7
CV(%)		0.00		1.12		0.54		0.67
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 5  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F0)

PAGE 27

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 12--JAN-02								
MEAN		0.		499.		985.		2428.
SD		0.0		12.2		6.2		33.5
CV(%)		0.00		2.46		0.63		1.38
N		10		10		10		10
EXPOSURE ON 13--JAN-02								
MEAN		0.		500.		986.		2498.
SD		0.0		8.3		14.5		18.9
CV(%)		0.00		1.67		1.47		0.76
N		10		10		10		10
EXPOSURE ON 14--JAN-02								
MEAN		0.		512.		998.		2507.
SD		0.0		21.2		42.3		31.5
CV(%)		0.00		4.14		4.24		1.26
N		10		10		10		10
EXPOSURE DATES 04--SEP-01 THROUGH 14--JAN-02								
MEAN		0.		500.		1008.		2522.
SD		0.0		15.2		29.7		73.6
CV(%)		0.00		3.04		2.95		2.92
N		133		133		133		133

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 1

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 15--JAN-02								
MEAN		0.		507.		1012.		2494.
SD		0.0		4.5		6.5		17.2
CV(%)		0.00		0.90		0.65		0.69
N		10		10		10		10
EXPOSURE ON 16--JAN-02								
MEAN		0.		507.		1010.		2494.
SD		0.0		4.7		6.9		17.5
CV(%)		0.00		0.92		0.68		0.70
N		10		10		10		10
EXPOSURE ON 17--JAN-02								
MEAN		0.		487.		1013.		2457.
SD		0.0		6.9		8.4		9.7
CV(%)		0.00		1.41		0.83		0.39
N		10		10		10		10
EXPOSURE ON 18--JAN-02								
MEAN		0.		536.		1087.		2721.
SD		0.0		40.4		80.8		357.8
CV(%)		0.00		7.54		7.43		13.15
N		10		10		10		10
EXPOSURE ON 19--JAN-02								
MEAN		0.		479.		1007.		2474.
SD		0.0		40.5		5.7		51.7
CV(%)		0.00		8.46		0.57		2.09
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 2

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 20--JAN-02								
MEAN		0.		501.		1002.		2505.
SD		0.0		4.6		9.1		28.1
CV(%)		0.00		0.92		0.91		1.12
N		10		10		10		10
EXPOSURE ON 21--JAN-02								
MEAN		0.		493.		1000.		2473.
SD		0.0		5.8		6.8		19.2
CV(%)		0.00		1.18		0.68		0.78
N		10		10		10		10
EXPOSURE ON 22--JAN-02								
MEAN		0.		497.		1003.		2484.
SD		0.0		3.2		9.8		11.2
CV(%)		0.00		0.65		0.98		0.45
N		10		10		10		10
EXPOSURE ON 23--JAN-02								
MEAN		0.		498.		1011.		2549.
SD		0.0		38.9		52.1		49.4
CV(%)		0.00		7.81		5.15		1.94
N		10		10		10		10
EXPOSURE ON 24--JAN-02								
MEAN		0.		494.		1005.		2585.
SD		0.0		13.3		13.8		22.4
CV(%)		0.00		2.68		1.37		0.87
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 25--JAN-02								
MEAN		0.		507.		1013.		2535.
SD		0.0		31.6		49.4		42.6
CV(%)		0.00		6.23		4.88		1.68
N		10		10		10		10
EXPOSURE ON 26--JAN-02								
MEAN		0.		498.		1041.		2478.
SD		0.0		6.4		8.9		23.0
CV(%)		0.00		1.28		0.86		0.93
N		10		10		10		10
EXPOSURE ON 27--JAN-02								
MEAN		0.		494.		1047.		2478.
SD		0.0		5.7		5.1		25.6
CV(%)		0.00		1.15		0.49		1.03
N		10		10		10		10
EXPOSURE ON 28--JAN-02								
MEAN		0.		489.		1045.		2458.
SD		0.0		5.7		8.4		18.9
CV(%)		0.00		1.17		0.80		0.77
N		10		10		10		10
EXPOSURE ON 29--JAN-02								
MEAN		0.		485.		1049.		2456.
SD		0.0		7.7		5.0		21.6
CV(%)		0.00		1.58		0.48		0.88
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 4

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 30--JAN-02								
MEAN		0.		505.		1044.		2491.
SD		0.0		40.3		38.8		9.6
CV(%)		0.00		7.99		3.72		0.39
N		10		10		10		10
EXPOSURE ON 31--JAN-02								
MEAN		0.		489.		1059.		2587.
SD		0.0		5.9		4.7		12.7
CV(%)		0.00		1.21		0.44		0.49
N		10		10		10		10
EXPOSURE ON 01--FEB-02								
MEAN		0.		491.		1067.		2543.
SD		0.0		3.6		9.5		7.7
CV(%)		0.00		0.73		0.89		0.30
N		10		10		10		10
EXPOSURE ON 02--FEB-02								
MEAN		0.		499.		1078.		2570.
SD		0.0		8.4		4.4		15.0
CV(%)		0.00		1.67		0.41		0.58
N		10		10		10		10
EXPOSURE ON 03--FEB-02								
MEAN		0.		492.		1072.		2524.
SD		0.0		5.7		6.5		26.5
CV(%)		0.00		1.17		0.61		1.05
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 04-FEB-02								
MEAN		0.		495.		1072.		2514.
SD		0.0		6.7		9.1		18.8
CV(%)		0.00		1.36		0.85		0.75
N		10		10		10		10
EXPOSURE ON 05-FEB-02								
MEAN		0.		499.		1081.		2599.
SD		0.0		3.9		8.1		18.7
CV(%)		0.00		0.78		0.75		0.72
N		10		10		10		10
EXPOSURE ON 06-FEB-02								
MEAN		0.		502.		1076.		2619.
SD		0.0		3.7		15.7		30.4
CV(%)		0.00		0.74		1.46		1.16
N		10		10		10		10
EXPOSURE ON 07-FEB-02								
MEAN		0.		498.		1067.		2575.
SD		0.0		3.3		6.1		14.6
CV(%)		0.00		0.67		0.58		0.57
N		10		10		10		10
EXPOSURE ON 08-FEB-02								
MEAN		0.		500.		1050.		2556.
SD		0.0		3.8		11.9		19.9
CV(%)		0.00		0.77		1.13		0.78
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 6

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 09-FEB-02								
MEAN		0.		501.		1045.		2561.
SD		0.0		6.7		4.3		21.9
CV(%)		0.00		1.34		0.41		0.86
N		10		10		10		10
EXPOSURE ON 10-FEB-02								
MEAN		0.		492.		1039.		2549.
SD		0.0		6.7		5.4		30.4
CV(%)		0.00		1.37		0.52		1.19
N		10		10		10		10
EXPOSURE ON 11-FEB-02								
MEAN		0.		500.		1041.		2569.
SD		0.0		7.2		7.0		14.2
CV(%)		0.00		1.44		0.67		0.55
N		10		10		10		10
EXPOSURE ON 12-FEB-02								
MEAN		0.		496.		1046.		2549.
SD		0.0		6.6		3.9		11.1
CV(%)		0.00		1.34		0.38		0.44
N		10		10		10		10
EXPOSURE ON 13-FEB-02								
MEAN		0.		504.		1064.		2575.
SD		0.0		5.9		8.2		19.6
CV(%)		0.00		1.17		0.77		0.76
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 14-FEB-02								
MEAN		0.		506.		1059.		2566.
SD		0.0		3.7		9.0		13.1
CV(%)		0.00		0.73		0.85		0.51
N		10		10		10		10
EXPOSURE ON 15-FEB-02								
MEAN		0.		501.		1056.		2571.
SD		0.0		14.4		11.3		34.9
CV(%)		0.00		2.87		1.07		1.36
N		9		9		9		9
EXPOSURE ON 16-FEB-02								
MEAN		0.		507.		1040.		2620.
SD		0.0		6.5		104.8		22.7
CV(%)		0.00		1.29		10.08		0.87
N		10		10		10		10
EXPOSURE ON 17-FEB-02								
MEAN		0.		513.		1080.		2657.
SD		0.0		9.3		5.6		12.0
CV(%)		0.00		1.82		0.52		0.45
N		10		10		10		10
EXPOSURE ON 18-FEB-02								
MEAN		0.		526.		1073.		2675.
SD		0.0		5.7		16.2		21.4
CV(%)		0.00		1.08		1.51		0.80
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 19-FEB-02								
MEAN		0.		520.		1063.		2655.
SD		0.0		5.3		5.0		16.1
CV(%)		0.00		1.02		0.47		0.60
N		10		10		10		10
EXPOSURE ON 20-FEB-02								
MEAN		0.		511.		1058.		2542.
SD		0.0		7.4		7.9		30.0
CV(%)		0.00		1.45		0.74		1.18
N		10		10		10		10
EXPOSURE ON 21-FEB-02								
MEAN		0.		519.		1059.		2551.
SD		0.0		4.9		7.0		19.8
CV(%)		0.00		0.95		0.66		0.78
N		10		10		10		10
EXPOSURE ON 22-FEB-02								
MEAN		0.		518.		1062.		2564.
SD		0.0		3.5		7.4		7.4
CV(%)		0.00		0.67		0.70		0.29
N		10		10		10		10
EXPOSURE ON 23-FEB-02								
MEAN		0.		512.		1049.		2556.
SD		0.0		10.1		10.5		14.9
CV(%)		0.00		1.97		1.00		0.58
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 24-FEB-02								
MEAN		0.		516.		1052.		2544.
SD		0.0		8.0		4.9		20.7
CV(%)		0.00		1.55		0.47		0.81
N		10		10		10		10
EXPOSURE ON 25-FEB-02								
MEAN		0.		517.		1050.		2537.
SD		0.0		3.8		11.0		7.7
CV(%)		0.00		0.73		1.05		0.30
N		10		10		10		10
EXPOSURE ON 26-FEB-02								
MEAN		0.		532.		1072.		2584.
SD		0.0		5.3		21.2		25.9
CV(%)		0.00		0.99		1.98		1.00
N		10		10		10		10
EXPOSURE ON 27-FEB-02								
MEAN		0.		530.		1029.		2587.
SD		0.0		4.7		4.6		14.4
CV(%)		0.00		0.90		0.44		0.56
N		10		10		10		10
EXPOSURE ON 28-FEB-02								
MEAN		0.		531.		1025.		2571.
SD		0.0		2.7		4.2		45.9
CV(%)		0.00		0.51		0.41		1.79
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 01-MAR-02								
MEAN		0.		531.		1019.		2537.
SD		0.0		6.4		5.6		19.2
CV(%)		0.00		1.20		0.55		0.76
N		10		10		10		10
EXPOSURE ON 02-MAR-02								
MEAN		0.		532.		1018.		2543.
SD		0.0		5.8		3.9		340.0
CV(%)		0.00		1.08		0.38		13.37
N		10		10		10		10
EXPOSURE ON 03-MAR-02								
MEAN		0.		525.		1015.		2519.
SD		0.0		12.5		6.2		13.1
CV(%)		0.00		2.39		0.61		0.52
N		10		10		10		10
EXPOSURE ON 04-MAR-02								
MEAN		0.		492.		1031.		2508.
SD		0.0		12.3		5.6		15.8
CV(%)		0.00		2.49		0.54		0.63
N		10		10		10		10
EXPOSURE ON 05-MAR-02								
MEAN		0.		499.		1021.		2535.
SD		0.0		6.1		6.6		27.0
CV(%)		0.00		1.22		0.64		1.07
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 06-MAR-02								
MEAN		0.		512.		1024.		2510.
SD		0.0		11.6		8.4		52.6
CV(%)		0.00		2.27		0.82		2.10
N		10		10		10		10
EXPOSURE ON 07-MAR-02								
MEAN		0.		535.		1019.		2554.
SD		0.0		41.1		40.3		16.6
CV(%)		0.00		7.68		3.96		0.65
N		10		10		10		10
EXPOSURE ON 08-MAR-02								
MEAN		0.		471.		1002.		2538.
SD		0.0		12.9		17.7		17.1
CV(%)		0.00		2.73		1.77		0.67
N		10		10		10		10
EXPOSURE ON 09-MAR-02								
MEAN		0.		469.		1002.		2516.
SD		0.0		6.9		7.0		17.5
CV(%)		0.00		1.48		0.70		0.70
N		10		10		10		10
EXPOSURE ON 10-MAR-02								
MEAN		0.		496.		1009.		2534.
SD		0.0		5.7		7.7		17.2
CV(%)		0.00		1.16		0.76		0.68
N		10		10		10		9

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 11-MAR-02								
MEAN		0.		510.		1020.		2570.
SD		0.0		4.7		5.9		14.1
CV(%)		0.00		0.93		0.58		0.55
N		10		10		10		10
EXPOSURE ON 12-MAR-02								
MEAN		0.		502.		1012.		2542.
SD		0.0		7.1		9.2		24.7
CV(%)		0.00		1.42		0.91		0.97
N		10		10		10		10
EXPOSURE ON 13-MAR-02								
MEAN		0.		500.		1008.		2537.
SD		0.0		12.9		8.0		36.2
CV(%)		0.00		2.59		0.79		1.43
N		10		10		10		8
EXPOSURE ON 14-MAR-02								
MEAN		0.		510.		994.		2569.
SD		0.0		8.7		4.1		13.7
CV(%)		0.00		1.71		0.41		0.53
N		10		10		10		10
EXPOSURE ON 15-MAR-02								
MEAN		0.		506.		1000.		2494.
SD		0.0		11.2		22.7		31.9
CV(%)		0.00		2.22		2.27		1.28
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 13

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 16-MAR-02								
MEAN		0.		520.		999.		2524.
SD		0.0		9.1		11.4		19.1
CV(%)		0.00		1.75		1.14		0.76
N		10		10		10		10
EXPOSURE ON 17-MAR-02								
MEAN		0.		514.		994.		2508.
SD		0.0		3.6		11.4		12.1
CV(%)		0.00		0.70		1.14		0.48
N		10		10		10		10
EXPOSURE ON 18-MAR-02								
MEAN		0.		510.		995.		2519.
SD		0.0		5.5		5.5		14.2
CV(%)		0.00		1.07		0.55		0.56
N		10		10		10		10
EXPOSURE ON 19-MAR-02								
MEAN		0.		510.		997.		2531.
SD		0.0		3.3		4.5		17.4
CV(%)		0.00		0.66		0.45		0.69
N		10		10		10		10
EXPOSURE ON 20-MAR-02								
MEAN		0.		503.		1000.		2522.
SD		0.0		7.4		8.4		18.7
CV(%)		0.00		1.48		0.84		0.74
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 21-MAR-02								
MEAN		0.		502.		989.		2513.
SD		0.0		4.2		8.7		17.8
CV(%)		0.00		0.83		0.88		0.71
N		10		10		10		10
EXPOSURE ON 22-MAR-02								
MEAN		0.		499.		982.		2488.
SD		0.0		5.9		5.2		14.6
CV(%)		0.00		1.19		0.53		0.59
N		10		10		10		10
EXPOSURE ON 23-MAR-02								
MEAN		0.		493.		976.		2479.
SD		0.0		12.7		9.6		18.9
CV(%)		0.00		2.58		0.98		0.76
N		10		10		10		10
EXPOSURE ON 24-MAR-02								
MEAN		0.		491.		963.		2469.
SD		0.0		8.6		7.1		20.1
CV(%)		0.00		1.75		0.74		0.82
N		10		10		10		10
EXPOSURE ON 25-MAR-02								
MEAN		0.		486.		949.		2453.
SD		0.0		5.6		6.0		20.2
CV(%)		0.00		1.16		0.63		0.82
N		10		10		9		9

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 15

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 26-MAR-02								
MEAN		0.		493.		951.		2460.
SD		0.0		1.7		4.4		10.0
CV(%)		0.00		0.34		0.46		0.41
N		10		10		10		10
EXPOSURE ON 27-MAR-02								
MEAN		0.		494.		963.		2506.
SD		0.0		5.6		5.1		27.6
CV(%)		0.00		1.13		0.53		1.10
N		10		10		10		10
EXPOSURE ON 28-MAR-02								
MEAN		0.		533.		988.		3041.
SD		0.0		34.9		98.5		254.2
CV(%)		0.00		6.55		9.97		8.36
N		10		10		10		10
EXPOSURE ON 29-MAR-02								
MEAN		0.		395.		1009.		2686.
SD		0.0		101.3		21.1		413.1
CV(%)		0.00		25.64		2.09		15.38
N		10		10		10		10
EXPOSURE ON 30-MAR-02								
MEAN		0.		508.		962.		2274.
SD		0.0		13.7		9.1		48.2
CV(%)		0.00		2.70		0.95		2.12
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 16

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 31-MAR-02								
MEAN		0.		506.		990.		2438.
SD		0.0		8.1		26.7		96.0
CV(%)		0.00		1.60		2.69		3.94
N		10		10		10		10
EXPOSURE ON 01-APR-02								
MEAN		0.		504.		1024.		2497.
SD		0.0		9.3		11.3		27.6
CV(%)		0.00		1.84		1.11		1.10
N		10		10		10		10
EXPOSURE ON 02-APR-02								
MEAN		0.		500.		1005.		2452.
SD		0.0		9.2		7.4		23.6
CV(%)		0.00		1.84		0.73		0.96
N		10		10		10		10
EXPOSURE ON 03-APR-02								
MEAN		0.		500.		1008.		2477.
SD		0.0		9.1		10.7		8.9
CV(%)		0.00		1.81		1.06		0.36
N		10		10		10		10
EXPOSURE ON 04-APR-02								
MEAN		0.		495.		1012.		2510.
SD		0.0		7.9		9.8		16.0
CV(%)		0.00		1.59		0.96		0.64
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

PAGE 17

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 05-APR-02								
MEAN		0.		496.		1005.		2505.
SD		0.0		7.2		5.4		22.1
CV(%)		0.00		1.46		0.54		0.88
N		10		10		10		10
EXPOSURE ON 06-APR-02								
MEAN		0.		493.		1000.		2503.
SD		0.0		9.5		7.4		20.4
CV(%)		0.00		1.94		0.74		0.81
N		10		10		10		10
EXPOSURE ON 07-APR-02								
MEAN		0.		491.		1004.		2499.
SD		0.0		8.5		20.6		26.5
CV(%)		0.00		1.73		2.06		1.06
N		10		10		10		10
EXPOSURE ON 08-APR-02								
MEAN		0.		496.		1002.		2469.
SD		0.0		7.9		13.0		30.3
CV(%)		0.00		1.59		1.29		1.23
N		10		10		10		10
EXPOSURE ON 09-APR-02								
MEAN		0.		491.		992.		2464.
SD		0.0		6.1		12.2		45.1
CV(%)		0.00		1.24		1.23		1.83
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 10-APR-02								
MEAN		0.		497.		1011.		2483.
SD		0.0		7.9		8.6		18.9
CV(%)		0.00		1.59		0.85		0.76
N		10		10		10		10
EXPOSURE ON 11-APR-02								
MEAN		0.		489.		1002.		2472.
SD		0.0		6.6		8.7		19.6
CV(%)		0.00		1.34		0.87		0.79
N		10		10		10		10
EXPOSURE ON 12-APR-02								
MEAN		0.		494.		996.		2457.
SD		0.0		17.6		12.8		58.1
CV(%)		0.00		3.56		1.28		2.37
N		10		10		10		10
EXPOSURE ON 13-APR-02								
MEAN		0.		481.		980.		2454.
SD		0.0		9.9		14.1		38.2
CV(%)		0.00		2.05		1.44		1.56
N		10		10		10		10
EXPOSURE ON 14-APR-02								
MEAN		0.		478.		977.		2471.
SD		0.0		8.6		16.5		28.7
CV(%)		0.00		1.80		1.69		1.16
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 15-APR-02								
MEAN		0.		478.		982.		2442.
SD		0.0		6.4		12.9		25.7
CV(%)		0.00		1.34		1.32		1.05
N		10		10		10		10
EXPOSURE ON 16-APR-02								
MEAN		0.		465.		972.		2399.
SD		0.0		7.7		13.7		35.0
CV(%)		0.00		1.66		1.41		1.46
N		10		10		10		10
EXPOSURE ON 17-APR-02								
MEAN		0.		473.		981.		2420.
SD		0.0		18.5		31.7		26.6
CV(%)		0.00		3.91		3.23		1.10
N		10		10		10		10
EXPOSURE ON 18-APR-02								
MEAN		0.		471.		1017.		2436.
SD		0.0		10.3		9.7		30.4
CV(%)		0.00		2.20		0.95		1.25
N		10		10		10		10
EXPOSURE ON 19-APR-02								
MEAN		0.		476.		1021.		2466.
SD		0.0		10.0		12.5		34.1
CV(%)		0.00		2.09		1.22		1.38
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 20-APR-02								
MEAN		0.		491.		1027.		2519.
SD		0.0		8.5		12.8		37.7
CV(%)		0.00		1.73		1.25		1.50
N		10		10		10		10
EXPOSURE ON 21-APR-02								
MEAN		0.		493.		1005.		2511.
SD		0.0		8.0		14.5		68.8
CV(%)		0.00		1.62		1.45		2.74
N		10		10		10		10
EXPOSURE ON 22-APR-02								
MEAN		0.		491.		994.		2552.
SD		0.0		8.6		3.3		21.1
CV(%)		0.00		1.74		0.33		0.83
N		10		10		10		10
EXPOSURE ON 23-APR-02								
MEAN		0.		491.		1002.		2571.
SD		0.0		5.3		6.4		15.1
CV(%)		0.00		1.09		0.64		0.59
N		10		10		10		10
EXPOSURE ON 24-APR-02								
MEAN		0.		488.		993.		2573.
SD		0.0		7.5		11.1		25.8
CV(%)		0.00		1.53		1.12		1.00
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 25-APR-02								
MEAN		0.		481.		1005.		2530.
SD		0.0		1.9		6.7		23.8
CV(%)		0.00		0.40		0.67		0.94
N		10		10		10		10
EXPOSURE ON 26-APR-02								
MEAN		0.		488.		1005.		2526.
SD		0.0		6.2		14.2		32.6
CV(%)		0.00		1.27		1.42		1.29
N		10		10		10		10
EXPOSURE ON 27-APR-02								
MEAN		0.		486.		987.		2485.
SD		0.0		11.4		9.7		59.7
CV(%)		0.00		2.34		0.98		2.40
N		10		10		10		10
EXPOSURE ON 28-APR-02								
MEAN		0.		471.		978.		2455.
SD		0.0		4.9		11.1		22.7
CV(%)		0.00		1.05		1.14		0.92
N		10		10		10		10
EXPOSURE ON 29-APR-02								
MEAN		0.		455.		969.		2469.
SD		0.0		39.1		28.6		35.1
CV(%)		0.00		8.58		2.95		1.42
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 30-APR-02								
MEAN		0.		465.		970.		2482.
SD		0.0		5.0		8.8		42.6
CV(%)		0.00		1.08		0.91		1.72
N		10		10		10		10
EXPOSURE ON 01-MAY-02								
MEAN		0.		460.		972.		2449.
SD		0.0		6.9		11.7		43.2
CV(%)		0.00		1.51		1.21		1.76
N		10		10		10		10
EXPOSURE ON 02-MAY-02								
MEAN		0.		464.		965.		2453.
SD		0.0		8.4		14.3		10.8
CV(%)		0.00		1.81		1.48		0.44
N		10		10		10		10
EXPOSURE ON 03-MAY-02								
MEAN		0.		471.		974.		2459.
SD		0.0		6.8		11.3		13.7
CV(%)		0.00		1.45		1.16		0.56
N		10		10		10		10
EXPOSURE ON 04-MAY-02								
MEAN		0.		475.		979.		2448.
SD		0.0		4.1		6.5		26.3
CV(%)		0.00		0.85		0.67		1.07
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 05-MAY-02								
MEAN		0.		470.		983.		2451.
SD		0.0		5.9		3.7		19.5
CV(%)		0.00		1.25		0.38		0.79
N		10		10		10		10
EXPOSURE ON 06-MAY-02								
MEAN		0.		471.		964.		2463.
SD		0.0		6.6		12.4		35.4
CV(%)		0.00		1.40		1.29		1.44
N		10		10		10		10
EXPOSURE ON 07-MAY-02								
MEAN		0.		471.		965.		2458.
SD		0.0		6.0		13.8		33.3
CV(%)		0.00		1.28		1.42		1.36
N		10		10		10		10
EXPOSURE ON 08-MAY-02								
MEAN		0.		472.		977.		2440.
SD		0.0		3.0		10.6		22.3
CV(%)		0.00		0.64		1.08		0.91
N		10		10		10		10
EXPOSURE ON 09-MAY-02								
MEAN		0.		473.		995.		2468.
SD		0.0		8.3		12.7		33.6
CV(%)		0.00		1.76		1.28		1.36
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 10-MAY-02								
MEAN		0.		477.		993.		2487.
SD		0.0		8.4		9.0		24.1
CV(%)		0.00		1.76		0.90		0.97
N		10		10		10		10
EXPOSURE ON 11-MAY-02								
MEAN		0.		469.		995.		2497.
SD		0.0		5.2		15.3		10.4
CV(%)		0.00		1.12		1.54		0.42
N		10		10		10		10
EXPOSURE ON 12-MAY-02								
MEAN		0.		485.		981.		2484.
SD		0.0		15.9		13.2		40.3
CV(%)		0.00		3.28		1.34		1.62
N		10		10		10		10
EXPOSURE ON 13-MAY-02								
MEAN		0.		463.		984.		2504.
SD		0.0		6.7		10.7		31.5
CV(%)		0.00		1.45		1.09		1.26
N		10		10		10		10
EXPOSURE ON 14-MAY-02								
MEAN		0.		471.		981.		2502.
SD		0.0		4.7		11.3		31.0
CV(%)		0.00		1.01		1.15		1.24
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 15-MAY-02								
MEAN		0.		467.		994.		2491.
SD		0.0		5.4		10.3		14.2
CV(%)		0.00		1.16		1.04		0.57
N		10		10		10		10
EXPOSURE ON 16-MAY-02								
MEAN		0.		464.		980.		2452.
SD		0.0		4.8		13.4		33.2
CV(%)		0.00		1.04		1.36		1.36
N		10		10		10		10
EXPOSURE ON 17-MAY-02								
MEAN		0.		465.		978.		2463.
SD		0.0		4.4		9.6		23.9
CV(%)		0.00		0.94		0.98		0.97
N		10		10		10		10
EXPOSURE ON 18-MAY-02								
MEAN		0.		467.		981.		2523.
SD		0.0		14.5		36.5		21.9
CV(%)		0.00		3.10		3.72		0.87
N		10		10		10		10
EXPOSURE ON 19-MAY-02								
MEAN		0.		487.		997.		2526.
SD		0.0		16.6		5.9		19.7
CV(%)		0.00		3.41		0.60		0.78
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 20-MAY-02								
MEAN		0.		505.		1001.		2582.
SD		0.0		3.6		9.1		14.4
CV(%)		0.00		0.72		0.91		0.56
N		10		10		10		10
EXPOSURE ON 21-MAY-02								
MEAN		0.		505.		997.		2566.
SD		0.0		4.4		6.1		22.5
CV(%)		0.00		0.87		0.62		0.88
N		10		10		10		10
EXPOSURE ON 22-MAY-02								
MEAN		0.		505.		1003.		2563.
SD		0.0		4.3		3.5		19.7
CV(%)		0.00		0.85		0.34		0.77
N		10		10		10		10
EXPOSURE ON 23-MAY-02								
MEAN		0.		496.		986.		2528.
SD		0.0		7.0		5.8		15.1
CV(%)		0.00		1.42		0.59		0.60
N		10		10		10		10
EXPOSURE ON 24-MAY-02								
MEAN		0.		492.		979.		2503.
SD		0.0		5.1		12.3		31.9
CV(%)		0.00		1.04		1.26		1.28
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
 SPONSOR:ACC

INHALATION TABLE 6  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM		500 PPM		1000 PPM		2500 PPM	
	CH. NO. 1	2.0M3 CONC.	CH. NO. 2	2.0M3 CONC.	CH. NO. 3	2.0M3 CONC.	CH. NO. 4	2.0M3 CONC.
EXPOSURE ON 25-MAY-02								
MEAN		0.		516.		1044.		2663.
SD		0.0		72.7		104.4		207.2
CV(%)		0.00		14.08		10.00		7.78
N		10		10		10		10
EXPOSURE ON 26-MAY-02								
MEAN		0.		494.		1009.		2535.
SD		0.0		9.4		13.1		18.1
CV(%)		0.00		1.90		1.30		0.71
N		10		10		10		10
EXPOSURE ON 27-MAY-02								
MEAN		0.		494.		1011.		2528.
SD		0.0		6.8		7.4		16.9
CV(%)		0.00		1.38		0.74		0.67
N		10		10		10		10
EXPOSURE ON 28-MAY-02								
MEAN		0.		490.		1006.		2496.
SD		0.0		8.8		10.3		52.2
CV(%)		0.00		1.79		1.03		2.09
N		10		10		10		10
EXPOSURE ON 29-MAY-02								
MEAN		0.		491.		1004.		2530.
SD		0.0		5.7		11.0		29.4
CV(%)		0.00		1.16		1.10		1.16
N		10		10		10		10

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
 CONCENTRATION IN: PPM

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PROJECT NO.:WIL-186013I  
SPONSOR:ACC

INHALATION TABLE 6  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY MEAN TEST ATMOSPHERE CONCENTRATIONS (F1)

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GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
	CH. NO. 1 2.0M3 CONC.	CH. NO. 2 2.0M3 CONC.	CH. NO. 3 2.0M3 CONC.	CH. NO. 4 2.0M3 CONC.
EXPOSURE ON 30-MAY-02				
MEAN	0.	495.	1007.	2545.
SD	0.0	5.2	14.4	19.6
CV(%)	0.00	1.06	1.43	0.77
N	10	10	10	10
EXPOSURE DATES 15-JAN-02 THROUGH 30-MAY-02				
MEAN	0.	494.	1012.	2521.
SD	0.0	19.7	32.0	74.8
CV(%)	0.00	3.98	3.16	2.97
N	136	136	136	136

CH. = CHAMBER, NO. = NUMBER, CONC. = CONCENTRATION  
CONCENTRATION IN: PPM

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TABLE 7  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
9/4/01	NA	611	1222	2851
9/5/01	NA	611	1219	2836
9/6/01	NA	608	1221	2815
9/7/01	NA	583	1192	2773
9/8/01	NA	586	1189	2761
9/9/01	NA	588	1189	2840
9/10/01	NA	591	1185	2827
9/11/01	NA	590	1191	2809
9/12/01	NA	604	1240	2885
9/13/01	NA	614	1215	2825
9/14/01	NA	605	1212	2821
9/15/01	NA	604	1227	2653
9/16/01	NA	604	1220	2838
9/17/01	NA	601	1212	2782
9/18/01	NA	609	1185	2838
9/19/01	NA	603	1175	2862
9/20/01	NA	598	1170	2851
9/21/01	NA	605	1188	2869
9/22/01	NA	603	1177	2948
9/23/01	NA	597	1181	2929
9/24/01	NA	600	1188	2931
9/25/01	NA	608	1188	2936
9/26/01	NA	603	1202	2831
9/27/01	NA	587	1157	2838
9/28/01	NA	599	1205	2858

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

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TABLE 7  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

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GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
9/29/01	NA	601	1207	2841
9/30/01	NA	600	1207	2888
10/1/01	NA	596	1203	2876
10/2/01	NA	605	1236	2913
10/3/01	NA	603	1224	2872
10/4/01	NA	603	1190	2885
10/5/01	NA	600	1191	2885
10/6/01	NA	604	1184	2887
10/7/01	NA	607	1206	2911
10/8/01	NA	605	1194	2887
10/9/01	NA	615	1135	2921
10/10/01	NA	634	1144	2931
10/11/01	NA	644	1140	2772
10/12/01	NA	668	1144	2680
10/13/01	NA	693	1140	2591
10/14/01	NA	693	1145	2880
10/15/01	NA	699	1144	2743
10/16/01	NA	736	1191	2830
10/17/01	NA	732	1190	2748
10/18/01	NA	729	1184	2724
10/19/01	NA	730	1186	2728
10/20/01	NA	766	1286	2919
10/21/01	NA	782	1321	3085
10/22/01	NA	777	1312	2869
10/23/01	NA	757	1249	2625

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

TABLE 7  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
10/24/01	NA	739	1213	2579
10/25/01	NA	728	1203	2555
10/26/01	NA	723	1198	2561
10/27/01	NA	722	1196	2568
10/28/01	NA	727	1194	2642
10/29/01	NA	723	1196	2598
10/30/01	NA	716	1193	2543
10/31/01	NA	695	1185	2460
11/1/01	NA	711	1182	2575
11/2/01	NA	709	1176	2576
11/3/01	NA	648	1116	2589
11/4/01	NA	637	1071	2326
11/5/01	NA	634	1072	2408
11/6/01	NA	631	1063	2451
11/7/01	NA	627	1088	2625
11/8/01	NA	635	1101	2666
11/9/01	NA	634	1095	2436
11/10/01	NA	629	1090	2421
11/11/01	NA	629	1088	2316
11/12/01	NA	627	1088	2326
11/13/01	NA	629	1084	2688
11/14/01	NA	631	1093	2654
11/15/01	NA	634	1094	2871
11/16/01	NA	635	1096	2876
11/17/01	NA	632	1086	2878

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
CONCENTRATION IN: PPM

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TABLE 7  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
11/18/01	NA	630	1088	2881
11/19/01	NA	628	1087	2851
11/20/01	NA	653	1032	2916
11/21/01	NA	656	1035	2887
11/22/01	NA	659	1157	2885
11/23/01	NA	658	1112	2898
11/24/01	NA	660	1078	2895
11/25/01	NA	660	1051	2900
11/26/01	NA	621	990	2821
11/27/01	NA	626	986	2852
11/28/01	NA	615	1142	2703
11/29/01	NA	636	1073	2750
11/30/01	NA	640	1068	2739
12/1/01	NA	633	1055	2843
12/2/01	NA	629	1044	2869
12/3/01	NA	627	1039	2851
12/4/01	NA	628	1198	2753
12/5/01	NA	630	1055	2673
12/6/01	NA	635	1024	2649
12/7/01	NA	629	1029	2877
12/8/01	NA	629	1029	2923
12/9/01	NA	626	1049	2726
12/10/01	NA	624	1056	2474
12/11/01	NA	624	1052	2440
12/12/01	NA	627	1049	2511

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

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TABLE 7  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

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GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
12/13/01	NA	639	1048	2737
12/14/01	NA	627	1050	2853
12/15/01	NA	642	1078	2886
12/16/01	NA	636	1074	2890
12/17/01	NA	637	1082	2892
12/18/01	NA	693	1079	2866
12/19/01	NA	638	1078	2896
12/20/01	NA	640	1081	2894
12/21/01	NA	637	1071	2883
12/22/01	NA	637	1072	2886
12/23/01	NA	643	1076	2899
12/24/01	NA	641	1071	2953
12/25/01	NA	637	1072	2913
12/26/01	NA	636	1072	2893
12/27/01	NA	642	1101	2914
12/28/01	NA	640	1085	2895
12/29/01	NA	640	1095	2900
12/30/01	NA	645	1075	2941
12/31/01	NA	642	1073	2930
1/1/02	NA	641	1076	2908
1/2/02	NA	646	1083	2926
1/3/02	NA	649	1098	2921
1/4/02	NA	646	1091	2907
1/5/02	NA	642	1092	2923
1/6/02	NA	643	1093	2892

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

TABLE 7  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F0 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
1/7/02	NA	643	1094	2917
1/8/02	NA	647	1091	2912
1/9/02	NA	648	1094	2913
1/10/02	NA	646	1084	2909
1/11/02	NA	644	1083	2803
1/12/02	NA	649	1084	2813
1/13/02	NA	649	1083	2861
1/14/02	NA	659	1106	2894
	MEAN	643	1131	2791
	S.D.	42.7	68.9	156.3
	N	133	133	133

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

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TABLE 8  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
1/15/02	NA	648	1101	2888
1/16/02	NA	646	1096	2885
1/17/02	NA	629	1103	2769
1/18/02	NA	531	919	2372
1/19/02	NA	604	1077	2764
1/20/02	NA	629	1067	2775
1/21/02	NA	629	1069	2785
1/22/02	NA	628	1068	2766
1/23/02	NA	628	1121	2876
1/24/02	NA	629	1077	2889
1/25/02	NA	627	1096	2809
1/26/02	NA	628	1115	2741
1/27/02	NA	628	1110	2746
1/28/02	NA	629	1114	2740
1/29/02	NA	630	1135	2745
1/30/02	NA	631	1131	2747
1/31/02	NA	629	1130	2876
2/1/02	NA	628	1134	2851
2/2/02	NA	629	1144	2853
2/3/02	NA	631	1146	2832
2/4/02	NA	634	1144	2853
2/5/02	NA	634	1155	2859
2/6/02	NA	630	1129	2900
2/7/02	NA	632	1132	2863
2/8/02	NA	636	1115	2802

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

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TABLE 8  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
2/9/02	NA	633	1105	2808
2/10/02	NA	637	1110	2834
2/11/02	NA	631	1103	2804
2/12/02	NA	634	1112	2802
2/13/02	NA	632	1120	2814
2/14/02	NA	635	1119	2785
2/15/02	NA	644	1123	2807
2/16/02	NA	641	1118	2808
2/17/02	NA	641	1121	2827
2/18/02	NA	640	1086	2814
2/19/02	NA	639	1088	2807
2/20/02	NA	644	1100	2742
2/21/02	NA	647	1095	2726
2/22/02	NA	646	1090	2721
2/23/02	NA	637	1076	2679
2/24/02	NA	636	1075	2661
2/25/02	NA	638	1072	2681
2/26/02	NA	655	1098	2753
2/27/02	NA	655	1053	2765
2/28/02	NA	653	1043	2726
3/1/02	NA	654	1036	2653
3/2/02	NA	656	1040	2659
3/3/02	NA	649	1043	2693
3/4/02	NA	613	1055	2659
3/5/02	NA	623	1049	2682

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CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

TABLE 8  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
3/6/02	NA	642	1052	2668
3/7/02	NA	647	1056	2724
3/8/02	NA	679	1141	2881
3/9/02	NA	680	1145	2875
3/10/02	NA	678	1138	2859
3/11/02	NA	676	1135	2860
3/12/02	NA	676	1132	2859
3/13/02	NA	676	1123	2785
3/14/02	NA	679	1104	2839
3/15/02	NA	674	1121	2783
3/16/02	NA	681	1104	2821
3/17/02	NA	683	1105	2815
3/18/02	NA	683	1108	2813
3/19/02	NA	683	1105	2824
3/20/02	NA	686	1115	2798
3/21/02	NA	685	1113	2802
3/22/02	NA	684	1116	2771
3/23/02	NA	690	1114	2779
3/24/02	NA	692	1109	2774
3/25/02	NA	679	1090	2738
3/26/02	NA	686	1094	2763
3/27/02	NA	688	1102	2805
3/28/02	NA	649	1140	2986
3/29/02	NA	673	1154	2827
3/30/02	NA	686	1155	2712

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
CONCENTRATION IN: PPM

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TABLE 8  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
3/31/02	NA	689	1184	2601
4/1/02	NA	686	1200	2962
4/2/02	NA	686	1201	2957
4/3/02	NA	689	1201	2932
4/4/02	NA	687	1199	2950
4/5/02	NA	682	1188	2934
4/6/02	NA	685	1185	2957
4/7/02	NA	685	1189	2941
4/8/02	NA	690	1196	2971
4/9/02	NA	688	1197	2954
4/10/02	NA	688	1198	2947
4/11/02	NA	685	1202	2960
4/12/02	NA	686	1203	2952
4/13/02	NA	679	1184	2926
4/14/02	NA	681	1185	2949
4/15/02	NA	683	1186	2945
4/16/02	NA	674	1177	2919
4/17/02	NA	685	1196	2922
4/18/02	NA	689	1238	2920
4/19/02	NA	701	1244	2979
4/20/02	NA	702	1235	2984
4/21/02	NA	700	1206	3026
4/22/02	NA	701	1197	3085
4/23/02	NA	700	1199	3073
4/24/02	NA	704	1200	3058

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

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TABLE 8  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

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GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
4/25/02	NA	697	1206	3041
4/26/02	NA	696	1203	2980
4/27/02	NA	695	1194	2962
4/28/02	NA	697	1202	2978
4/29/02	NA	692	1198	2982
4/30/02	NA	697	1201	2979
5/1/02	NA	680	1191	2959
5/2/02	NA	687	1188	2973
5/3/02	NA	684	1185	2957
5/4/02	NA	686	1182	2959
5/5/02	NA	687	1186	2960
5/6/02	NA	692	1188	2955
5/7/02	NA	692	1187	2949
5/8/02	NA	690	1181	2963
5/9/02	NA	686	1182	2949
5/10/02	NA	683	1179	2983
5/11/02	NA	676	1159	2941
5/12/02	NA	704	1177	2963
5/13/02	NA	678	1175	2982
5/14/02	NA	680	1173	2958
5/15/02	NA	677	1169	2946
5/16/02	NA	679	1179	2972
5/17/02	NA	678	1169	2967
5/18/02	NA	677	1167	2957
5/19/02	NA	708	1167	2944

CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

TABLE 8  
 INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
 DAILY NOMINAL CONCENTRATIONS (F1 GENERATION)

GROUP:	0 PPM	500 PPM	1000 PPM	2500 PPM
DATE	CONC.	CONC.	CONC.	CONC.
5/20/02	NA	718	1163	3013
5/21/02	NA	719	1166	2996
5/22/02	NA	719	1167	3012
5/23/02	NA	721	1169	3031
5/24/02	NA	724	1176	3017
5/25/02	NA	651	1113	2826
5/26/02	NA	712	1178	3003
5/27/02	NA	711	1185	3012
5/28/02	NA	712	1190	3238
5/29/02	NA	717	1197	3014
5/30/02	NA	719	1193	2993
	MEAN	668	1140	2867
	S.D.	31.1	52.6	120.7
	N	136	136	136

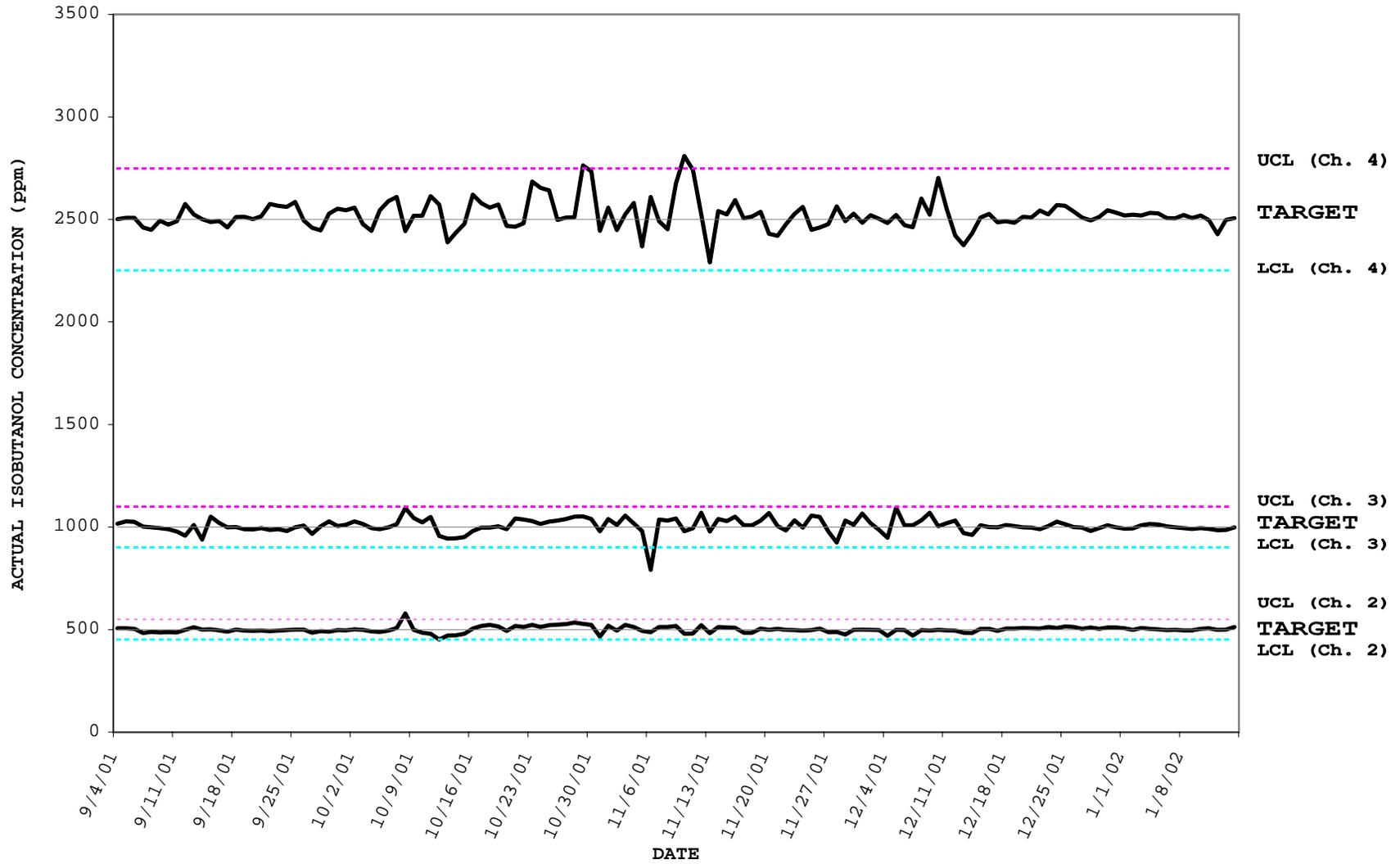
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CONC. = CONCENTRATION, NA = NOT APPLICABLE  
 CONCENTRATION IN: PPM

PROJECT NO.: WIL-186013I  
SPONSOR: ACC

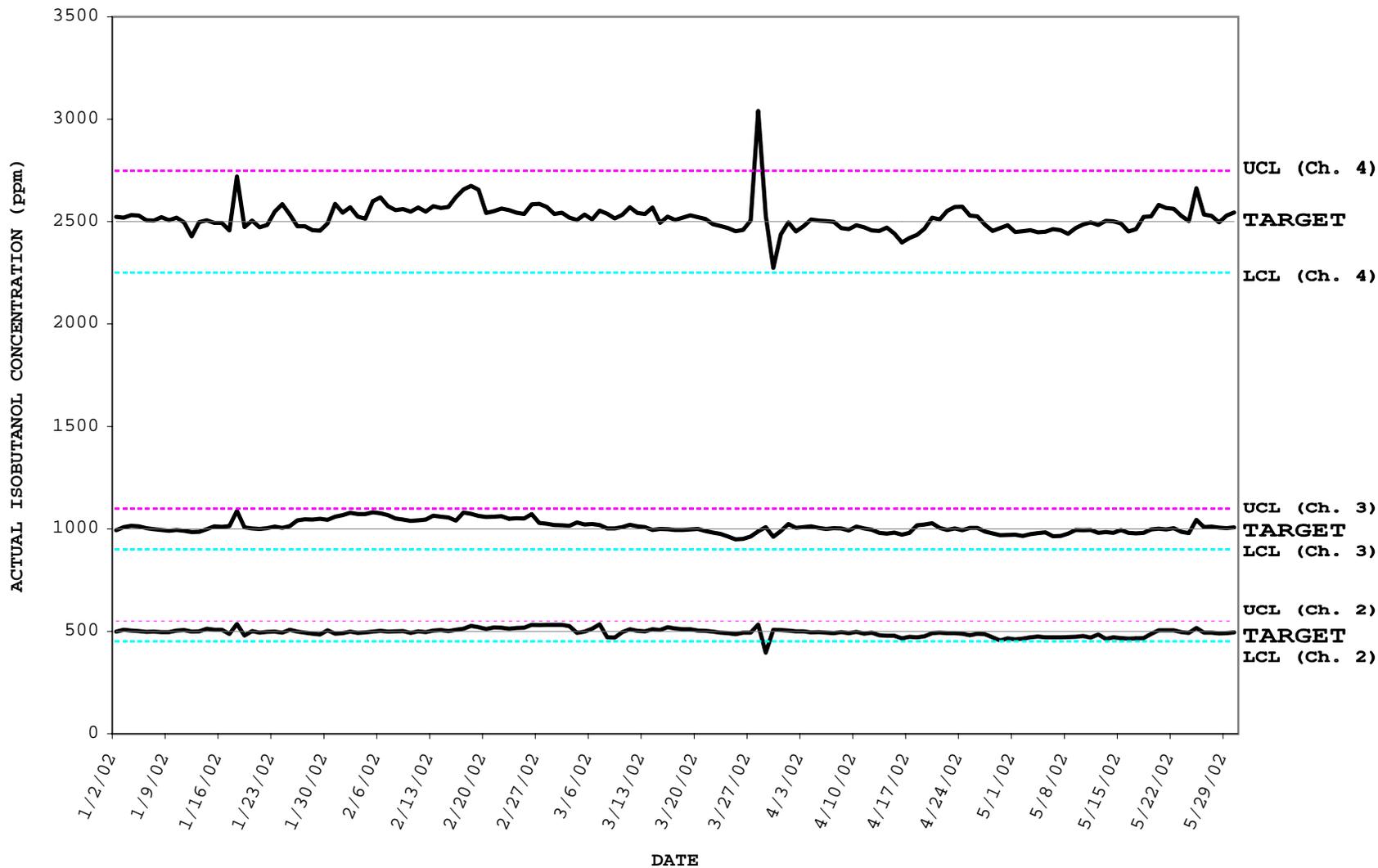
FIGURE 2 (F0)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY CONCENTRATIONS BY EXPOSURE CHAMBER

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PROJECT NO.: WIL-186013I  
SPONSOR: ACC

FIGURE 3 (F1)  
INHALATION TWO-GEN. REPRO. TOXICITY STUDY OF ISOBUTANOL IN RATS  
DAILY CONCENTRATIONS BY EXPOSURE CHAMBER



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## **APPENDIX D**

### Animal Room Environmental Conditions



INHALATION TWO-GEN. REPRO, TOXICITY STUDY OF ISOBUTANOL IN RATS  
 TEMPERATURE/HUMIDITY - DAILY SUMMARY REPORT BY STUDY

PROJECT NO.: WIL- 186013  
 SPONSOR: ACC

STUDY SPECIFICATIONS: 186013 DATE IN: 08/14/01 TIME IN: 11:00  
 DATE OUT: 05/23/02 TIME OUT: 11:00  
 ROOM SPECIFICATIONS: B ROOM 32 LOW TEMPERATURE °F: 67.0 HIGH TEMPERATURE °F: 77.0 LOW HUMIDITY: 30.0  
 SPECIES: RAT LOW TEMPERATURE °C: 19.4 HIGH TEMPERATURE °C: 25.0 HIGH HUMIDITY: 70.0

DATE	TEMPERATURE		HUMIDITY
	MEAN (°F)	MEAN (°C)	MEAN (%RH)
24-Mar-02	71.8	22.1	39.2
25-Mar-02	71.8	22.1	39.3
26-Mar-02	71.8	22.1	39.2
27-Mar-02	71.8	22.1	39.3
28-Mar-02	71.8	22.1	39.7
29-Mar-02	71.8	22.1	39.7
30-Mar-02	71.8	22.1	38.6
31-Mar-02	71.8	22.1	37.1
01-Apr-02	71.7	22.1	38.9
02-Apr-02	71.8	22.1	41.3
03-Apr-02	71.8	22.1	38.9
04-Apr-02	71.6	22.0	39.0
05-Apr-02	71.6	22.0	38.8
06-Apr-02	71.6	22.0	38.6
07-Apr-02	71.9	22.1	37.1
08-Apr-02	71.8	22.1	39.1
09-Apr-02	71.7	22.1	44.7
10-Apr-02	71.9	22.2	39.7
11-Apr-02	71.9	22.1	40.0
12-Apr-02	71.9	22.2	44.7
13-Apr-02	71.7	22.1	48.6
14-Apr-02	71.8	22.1	46.9
15-Apr-02	71.8	22.1	48.8

NOTE: + = VALUE WAS GREATER THAN HIGH RANGE  
 - = VALUE WAS LESS THAN LOW RANGE  
 NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

REPORT 4  
 VERSION 1.06  
 10/4/02 11:11

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INHALATION TWO-GEN. REPRO, TOXICITY STUDY OF ISOBUTANOL IN RATS  
 TEMPERATURE/HUMIDITY - DAILY SUMMARY REPORT BY STUDY

PROJECT NO.: WIL- 186013  
 SPONSOR: ACC

STUDY SPECIFICATIONS: 186013 DATE IN: 08/14/01 TIME IN: 11:00  
 DATE OUT: 05/23/02 TIME OUT: 11:00  
 ROOM SPECIFICATIONS: B ROOM 32 LOW TEMPERATURE °F: 67.0 HIGH TEMPERATURE °F: 77.0 LOW HUMIDITY: 30.0  
 SPECIES: RAT LOW TEMPERATURE °C: 19.4 HIGH TEMPERATURE °C: 25.0 HIGH HUMIDITY: 70.0

DATE	TEMPERATURE		HUMIDITY
	MEAN (°F)	MEAN (°C)	MEAN (%RH)
09-May-02	71.9	22.2	47.7
10-May-02	71.7	22.1	36.5
11-May-02	71.7	22.0	37.6
12-May-02	71.7	22.1	47.4
13-May-02	71.9	22.2	43.5
14-May-02	71.7	22.1	37.1
15-May-02	71.8	22.1	37.4
16-May-02	71.8	22.1	42.7
17-May-02	72.0	22.2	39.5
18-May-02	71.9	22.2	38.4
19-May-02	71.8	22.1	37.6
20-May-02	71.9	22.2	37.9
21-May-02	71.7	22.1	36.8
22-May-02	71.8	22.1	37.8
23-May-02	71.8	22.1	38.6

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NOTE: + = VALUE WAS GREATER THAN HIGH RANGE  
 - = VALUE WAS LESS THAN LOW RANGE  
 NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

REPORT 4  
 VERSION 1.06  
 10/4/02 11:11

INHALATION TWO-GEN. REPRO, TOXICITY STUDY OF ISOBUTANOL IN RATS  
 TEMPERATURE/HUMIDITY - DAILY SUMMARY REPORT BY STUDY

PROJECT NO.: WIL- 186013  
 SPONSOR: ACC

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STUDY SPECIFICATIONS:	186013	DATE IN:	08/14/01	TIME IN:	11:00
		DATE OUT:	05/23/02	TIME OUT:	11:00
ROOM SPECIFICATIONS:	B ROOM 32	LOW TEMPERATURE °F:	67.0	HIGH TEMPERATURE °F:	77.0
SPECIES:	RAT	LOW TEMPERATURE °C:	19.4	HIGH TEMPERATURE °C:	25.0
				LOW HUMIDITY:	30.0
				HIGH HUMIDITY:	70.0

DATE	TEMPERATURE		HUMIDITY
	MEAN (°F)	MEAN (°C)	MEAN (%RH)

<b>GRAND STATS</b>	MEAN	MIN	MAX
TEMPERATURE °F	71.8	71.6	72.1
TEMPERATURE °C	22.1	22.0	22.3
HUMIDITY (%RH)	40.1	34.8	49.2
N DAYS	84		

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NOTE: + = VALUE WAS GREATER THAN HIGH RANGE  
 - = VALUE WAS LESS THAN LOW RANGE  
 NOTE: MEANS REPRESENT THE MEAN OF THE DAILY VALUES

REPORT 4  
 VERSION 1.06  
 10/4/02 11:11

PROJECT NO.:WIL- 186013  
SPONSOR: ACC

INHALATION TWO-GEN. REPRO, TOXICITY STUDY OF ISOBUTANOL IN RATS  
TEMPERATURE/HUMIDITY - END OF STUDY SUMMARY REPORT

11:13 04-Oct-02

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ROOM SPECIFICATIONS: B ROOM 32  
SPECIES: RAT  
LOW TEMPERATURE: 67.0      DATE IN: 08/14/01  
HIGH TEMPERATURE: 77.0      TIME IN: 11:00  
LOW HUMIDITY: 30.0      DATE OUT: 05/23/02  
HIGH HUMIDITY: 70.0      TIME OUT: 11:00      TEMPERATURE      HUMIDITY

ROOM B ROOM 32 SUMMARY

MEAN	71.8	40.1
MIN	70.7	28.2
MAX	72.9	59.3
SD	0.43	4.42
N SAMPLES	1995	1995
FIRST DAY	03/01/02	
LAST DAY	05/23/02	
N DAYS	84	

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NOTE: TEMPERATURE UNITS = DEGREES FAHRENHEIT  
HUMIDITY UNITS = % RELATIVE HUMIDITY  
NOTE: MEANS REPRESENT THE MEAN OF ALL VALUES

REPORT 5  
VERSION 1.09  
10/4/02 11:13

PROJECT NO.:WIL- 186013  
SPONSOR: ACC

INHALATION TWO-GEN. REPRO, TOXICITY STUDY OF ISOBUTANOL IN RATS  
TEMPERATURE/HUMIDITY - END OF STUDY SUMMARY REPORT

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STUDY 186013 SUMMARY

MEAN	71.8	40.1
MIN	70.7	28.2
MAX	72.9	59.3
SD	0.43	4.42
N SAMPLES	1995	1995
FIRST DAY	03/01/02	
LAST DAY	05/23/02	
N DAYS	84	

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NOTE: TEMPERATURE UNITS = DEGREES FAHRENHEIT  
HUMIDITY UNITS = % RELATIVE HUMIDITY  
NOTE: MEANS REPRESENT THE MEAN OF ALL VALUES

REPORT 5  
VERSION 1.09  
10/4/02 11:13

## **APPENDIX E**

WIL Reproductive Historical Control Data [CrI:CD<sup>®</sup>(SD)IGS BR Rats]

ENDPOINT	Total	Mean	SD	Min	Max	25th Quartile	75th Quartile
TOTAL NO. MALES IN CONTROL GROUP	684	28.5	3.50	24	40	25	30
MALE MATING INDEX (%)		96.0	6.62	72.0	100.0	95.3	100.0
MALE FERTILITY (%)		89.3	10.03	56.7	100.0	87.7	95.9
TOTAL NO. FEMALES IN CONTROL GROUP	881	27.5	3.50	22	40	25	30
FEMALE MATING INDEX (%)		97.0	4.02	84.0	100.0	96.0	100.0
FEMALE FERTILITY (%)		90.4	8.80	56.7	100.0	87.9	95.9
TOTAL NO. FEMALES SELECTED TO DELIVER	879						
NO. WHICH DELIVERED	812	25.4	3.57	17	38	23.0	27.3
NO. WHICH DID NOT DELIVER	73	2.3	2.51	0	13	1	3
NO. DIED	2						
NO. OF DAMS WITH TOTAL LITTER LOSS	6	0.2	0.40	0	1	0.0	0.0
MEAN PRECOITAL INTERVAL (DAYS)		2.7	0.41	2	3.5	2.4	2.9
MEAN GESTATION LENGTH (DAYS)		21.8	0.17	21.6	22.3	21.7	21.8
MEAN NO. PUPS BORN		14.2	1.02	12.0	16.3	13.4	15.0
MEAN VIABLE LITTER SIZE PND 0		13.9	1.01	11.6	15.9	13	14.7
MEAN NO. DEAD PUPS PND 0		0.3	0.15	0.04	0.68	0	0.38
% DEAD PUPS PND 0		2.0	1.03	0.3	4.5	1.1	2.7
PUP SEX RATIO							
% MALE		50.0	2.54	44	56.4	48.6	51.6
% FEMALE		50.0	2.54	43.6	56	48.5	51.4
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING		15.2	0.86	13.7	16.7	14.2	15.9
MEAN NO. OF SITES UNACCOUNTED FOR AT WEANING		0.8	0.17	0.5	1.2	0.7	0.9
MEAN ESTROUS CYCLE LENGTH (DAYS)		4.3	0.29	4.1	5.1	4.2	4.4
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM		86.6	16.61	54.4	98.1	86.1	96.9
DATE OF INITIATION OF FIRST STUDY ENTERED	6/17/96						
DATE OF TERMINATION OF LAST STUDY ENTERED	1/11/00						

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ENDPOINT	Mean	SD	Min	Max	25th Quartile	75th Quartile
MEAN NO. PUPS BORN	14.2	1.02	12.0	16.3	13.4	15.0
PUP SURVIVAL INDICES (PND)						
BIRTH-4 (BEFORE SELECTION)	96.2	2.05	91.3	99.3	95.3	97.6
DAYS 4-21 (AFTER SELECTION)	98.9	1.45	95.4	100	98.7	100.0
MEAN PUP WEIGHTS (g) MALE (PND)						
DAY 1	7.0	0.23	6.5	7.4	6.8	7.1
DAY 4 (BEFORE SELECTION)	9.9	0.57	8.6	10.7	9.5	10.4
DAY 7	15.4	1.67	11.7	17.8	15.1	16.6
DAY 14	31.0	3.91	22.5	36.5	28.0	33.6
DAY 21	48.6	6.05	34.9	58	45.3	52.9
MEAN PUP WEIGHTS (g) FEMALE (PND)						
DAY 1	6.6	0.22	6.1	6.9	6.4	6.7
DAY 4 (BEFORE SELECTION)	9.3	0.54	8.1	10	9.0	9.7
DAY 7	14.6	1.60	11	16.8	14.1	15.9
DAY 14	29.7	3.82	21.2	34.7	26.6	32.2
DAY 21	46.4	5.70	33.3	54.8	43.6	50.7
ANOGENITAL DISTANCE (PND 1)						
MALE	5.3	0.32	4.8	5.7	5.3	5.3
FEMALE	3.2	0.43	2.7	3.9	3.1	3.3
MEAN BALANOPREPUTIAL SEPARATION (PND)	44.7	2.18	41.6	49	43.2	46.4
MEAN BODY WEIGHT AT ACQUISITION	227.8	11.70	210.5	248	221.7	230.8
MEAN VAGINAL PATENCY (PND)	33.3	1.68	31.9	38.8	32.5	33.3
MEAN BODY WEIGHT AT ACQUISITION	111.5	6.36	102.8	119.5	106.5	118.0

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ENDPOINT	Mean	SD	Min	Max	25th Quartile	75th Quartile
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	2.40	0.368	1.76	2.80	2.05	2.70
MEAN RIGHT TESTIS WEIGHT (G)	1.75	0.065	1.65	1.86	1.71	1.79
MEAN LEFT TESTIS WEIGHT (G)	1.76	0.067	1.67	1.88	1.71	1.81
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	0.72	0.030	0.64	0.75	0.71	0.74
MEAN LEFT EPIDIDYMIS WEIGHT (G)	0.72	0.032	0.64	0.76	0.70	0.74
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	0.3179	0.01399	0.2807	0.3364	0.3160	0.3266
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	0.3210	0.01409	0.2943	0.3423	0.3197	0.3280
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)						
LEFT TESTIS	90.2	7.92	72.9	104.8	86.7	95.4
LEFT EPIDIDYMIS	444.4	47.91	343.6	534.3	414.2	464.9
MEAN SPERM PRODUCTION RATE (NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	14.8	1.30	11.9	17.2	14.2	15.6
% MOTILE SPERM	83.2	3.51	75.4	87.6	80.8	85.8
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)						
NORMAL	99.0	0.97	96.4	99.9	98.6	99.7
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.6	0.54	0.03	2.0	0.2	0.8
HEAD ABSENT WITH NORMAL FLAGELLUM	0.4	0.44	0.03	1.6	0.1	0.6
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.03	0.0	0.1	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.01	0.0	0.02	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.00	0.0	0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.00	0.0	0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.00	0.0	0	0.0	0.0
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)						
NORMAL	198.0	1.92	192.8	199.9	197.3	199.3
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	1.2	1.08	0.07	4	0.3	1.6
HEAD ABSENT WITH NORMAL FLAGELLUM	0.8	0.86	0.07	3.2	0.2	1.1
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.03	0.0	0.1	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.03	0.0	0.1	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.00	0.0	0.0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.00	0.0	0.0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.00	0.0	0.0	0.0	0.0

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STUDY NO.	1	2	3	4	5
TOTAL NO. MALES IN CONTROL GROUP	30	30	30	30	30
MALE MATING INDEX (%)	100.0	93.3	100.0	90.0	100.0
MALE FERTILITY (%)	83.3	56.7	93.3	90.0	93.3
TOTAL NO. FEMALES IN CONTROL GROUP	30	30	30	30	30
FEMALE MATING INDEX (%)	100.0	93.3	100.0	90.0	100.0
FEMALE FERTILITY (%)	83.3	56.7	93.3	90.0	93.3
TOTAL NO. FEMALES SELECTED TO DELIVER	30	30	30	30	30
NO. WHICH DELIVERED	25	17	26	27	28
NO. WHICH DID NOT DELIVER	5	11	2	0	2
NO. DIED	0	0	0	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	1	0	0	0	0
MEAN PRECOITAL INTERVAL (DAYS)	3.2	3.0	2.3	2.4	2.2
MEAN GESTATION LENGTH (DAYS)	22.3	22.0	21.8	21.8	21.8
MEAN NO. PUPS BORN	12.0	12.9	13.6	13.5	13.0
MEAN VIABLE LITTER SIZE PND 0	11.6	12.5	13.5	13.4	13.0
TOTAL NO. DEAD PUPS PND 0	10	6	3	4	2
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	3.32	2.74	0.79	1.10	0.55
MEAN DEAD PUPS/LITTER	0.40	0.35	0.11	0.15	0.70
PUP SEX RATIO					
MALES (% PER LITTER)	49.7	52.1	51.1	51.8	52.1
FEMALES (% PER LITTER)	50.3	47.9	48.9	48.2	47.9
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	---	---	14.5	14.2	14.2
MEAN NO. OF SITES UNACCOUNTED FOR AT WEANING	---	---	0.9	0.7	1.2
MEAN ESTROUS CYCLE LENGTH (DAYS)	---	---	4.2	4.1	4.2
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	---	---	---	---	---
DATE OF STUDY INITIATION	11/19/97	2/23/98	11/3/98	2/3/99	9/24/98
DATE OF STUDY TERMINATION	4/7/98	8/18/98	3/16/99	7/23/99	2/5/99
VEHICLE	Basal Feed	Basal Feed	Basal Feed	Basal Feed	Filtered Air
ROUTE	Diet	Diet	Diet	Diet	Inhalation

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STUDY NO.	6	7	8	9	10
TOTAL NO. MALES IN CONTROL GROUP	30	30	30	30	30
MALE MATING INDEX (%)	100.0	93.3	100.0	100.0	100.0
MALE FERTILITY (%)	96.7	80.0	89.7	93.3	93.3
TOTAL NO. FEMALES IN CONTROL GROUP	30	30	30	30	30
FEMALE MATING INDEX (%)	100.0	93.3	100.0	100.0	100.0
FEMALE FERTILITY (%)	96.7	80.0	89.7	93.3	93.3
TOTAL NO. FEMALES SELECTED TO DELIVER	30	30	29	30	30
NO. WHICH DELIVERED	29	24	26	28	28
NO. WHICH DID NOT DELIVER	1	4	3	2	2
NO. DIED	0	0	1	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	1	1	0	0	0
MEAN PRECOITAL INTERVAL (DAYS)	3.5	2.6	2.7	2.7	2.8
MEAN GESTATION LENGTH (DAYS)	21.7	22.0	21.8	22.1	21.8
MEAN NO. PUPS BORN	13.4	15.0	13.2	13.2	13.3
MEAN VIABLE LITTER SIZE PND 0	13.1	14.5	12.9	12.9	13.1
TOTAL NO. DEAD PUPS PND 0	7	12	8	7	7
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	1.80	3.34	2.33	1.90	1.88
MEAN DEAD PUPS/LITTER	0.24	0.50	0.31	0.25	0.25
PUP SEX RATIO					
MALES (% PER LITTER)	48.6	49.2	48.6	44.0	45.0
FEMALES (% PER LITTER)	51.4	50.8	51.4	56.0	55.0
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	14.0	15.7	14.0	13.7	14.2
MEAN NO. OF SITES UNACCOUNTED FOR	0.7	0.8	0.8	0.6	0.9
MEAN ESTROUS CYCLE LENGTH (DAYS)	5.1	4.2	4.3	4.5	4.4
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	96.7	54.4	98.1	---	85.5
DATE OF STUDY INITIATION	12/24/98	2/9/99	5/27/99	11/23/98	2/25/99
DATE OF STUDY TERMINATION	6/11/99	7/9/99	11/12/99	4/7/99	8/19/99
VEHICLE	Filtered Air	Deionized Water	Deionized Water	Basal Feed	Basal Feed
ROUTE	Inhalation	Gavage	Gavage	Diet	Diet

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STUDY NO.	11	12	13	14	15
TOTAL NO. MALES IN CONTROL GROUP	30	30	30	30	---
MALE MATING INDEX (%)	96.6	96.7	93.3	100.0	---
MALE FERTILITY (%)	89.7	96.7	86.7	100.0	---
TOTAL NO. FEMALES IN CONTROL GROUP	30	30	30	30	25
FEMALE MATING INDEX (%)	96.7	96.7	93.3	100.0	100.0
FEMALE FERTILITY (%)	90.0	96.7	86.7	100.0	---
TOTAL NO. FEMALES SELECTED TO DELIVER	30	30	30	30	25
NO. WHICH DELIVERED	27	29	26	30	24
NO. WHICH DID NOT DELIVER	2	0	2	0	0
NO. DIED	0	0	0	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	1	0	0	0	1
MEAN PRECOITAL INTERVAL (DAYS)	2.7	3.3	2.6	2.0	---
MEAN GESTATION LENGTH (DAYS)	21.9	21.6	21.8	21.6	21.8
MEAN NO. PUPS BORN	13.7	13.4	13.5	14.9	15.1
MEAN VIABLE LITTER SIZE PND 0	13.3	13.1	13.2	14.4	14.4
TOTAL NO. DEAD PUPS PND 0	10	8	8	15	17
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	2.70	2.06	2.29	3.36	4.50
MEAN DEAD PUPS/LITTER	0.37	0.28	0.31	0.50	0.68
PUP SEX RATIO					
MALES (% PER LITTER)	56.4	50.6	51.3	50.0	49.0
FEMALES (% PER LITTER)	43.6	49.4	48.7	50.0	51.0
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	---	---	---	15.6	15.9
MEAN NO. OF SITES UNACCOUNTED FOR	---	---	---	0.8	0.8
MEAN ESTROUS CYCLE LENGTH (DAYS)	---	---	---	---	---
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	87.8	96.9	---	---	---
DATE OF STUDY INITIATION	1/14/97	4/15/97	4/15/97	11/4/97	8/31/98
DATE OF STUDY TERMINATION	6/3/97	11/29/97	11/29/97	11/25/97	10/9/98
VEHICLE	Filtered Air	Filtered Air	Filtered Air	Filtered Air	0.4% Methyl- cellulose
ROUTE	Inhalation	Inhalation	Inhalation	Inhalation	Gavage

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STUDY NO.	16	17	18	19	20
TOTAL NO. MALES IN CONTROL GROUP	25	24	---	25	25
MALE MATING INDEX (%)	100.0	100.0	---	100.0	100.0
MALE FERTILITY (%)	92.0	95.8	---	100.0	96.0
TOTAL NO. FEMALES IN CONTROL GROUP	25	24	25	25	25
FEMALE MATING INDEX (%)	100.0	100.0	---	100.0	100.0
FEMALE FERTILITY (%)	92.0	95.8	---	100.0	96.0
TOTAL NO. FEMALES SELECTED TO DELIVER	25	24	25	25	25
NO. WHICH DELIVERED	23	23	23	25	24
NO. WHICH DID NOT DELIVER	2	1	0	0	1
NO. DIED	0	0	0	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	0	0	0	0	0
MEAN PRECOITAL INTERVAL (DAYS)	2.4	2.4	---	2.8	2.7
MEAN GESTATION LENGTH (DAYS)	21.8	21.6	21.8	---	---
MEAN NO. PUPS BORN	14.3	15.5	14.8	---	---
MEAN VIABLE LITTER SIZE PND 0	13.9	15.0	14.7	---	---
TOTAL NO. DEAD PUPS PND 0	9	10	3	---	---
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	2.74	2.81	0.88	---	---
MEAN DEAD PUPS/LITTER	0.39	0.43	0.13	---	---
PUP SEX RATIO					
MALES (% PER LITTER)	52.1	49.7	51.9	---	---
FEMALES (% PER LITTER)	47.9	50.3	48.1	---	---
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	15.1	15.9	15.7	---	---
MEAN NO. OF SITES UNACCOUNTED FOR	0.8	0.9	1.0	---	---
MEAN ESTROUS CYCLE LENGTH (DAYS)	---	---	---	---	---
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	---	---	---	---	---
DATE OF STUDY INITIATION	9/14/98	7/7/98	9/23/98	10/27/98	3/29/99
DATE OF STUDY TERMINATION	2/1/99	10/1/98	11/23/98	3/1/99	5/4/99
VEHICLE	0.4% Methyl-cellulose	Basal Feed	1% Avicel-5% Tween 80	1% Avicel-5% Tween 80	1% Avicel-5% Tween 80
ROUTE	Gavage	Diet	Gavage	Gavage	Gavage

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STUDY NO.	21	22	23	24	25
TOTAL NO. MALES IN CONTROL GROUP	---	25	---	25	---
MALE MATING INDEX (%)	---	96.0	---	72.0	---
MALE FERTILITY (%)	---	88.0	---	72.0	---
TOTAL NO. FEMALES IN CONTROL GROUP	25	25	22	25	25
FEMALE MATING INDEX (%)	---	96.0	---	84.0	---
FEMALE FERTILITY (%)	---	88.0	---	84.0	---
TOTAL NO. FEMALES SELECTED TO DELIVER	25	25	22	25	25
NO. WHICH DELIVERED	25	22	21	21	25
NO. WHICH DID NOT DELIVER	0	3	0	0	0
NO. DIED	0	0	0	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	0	0	0	0	0
MEAN PRECOITAL INTERVAL (DAYS)	---	2.2	---	3.5	---
MEAN GESTATION LENGTH (DAYS)	21.6	21.8	21.8	---	22.0
MEAN NO. PUPS BORN	14.1	15.0	14.8	---	14.8
MEAN VIABLE LITTER SIZE PND 0	13.8	14.9	14.6	---	14.7
TOTAL NO. DEAD PUPS PND 0	8	5	3	---	1
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	2.27	1.51	0.97	---	0.27
MEAN DEAD PUPS/LITTER	0.32	0.23	0.14	---	0.04
PUP SEX RATIO					
MALES (% PER LITTER)	47.7	49.8	47.7	---	47.7
FEMALES (% PER LITTER)	52.3	50.2	52.3	---	52.3
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	15.2	15.9	15.4	---	15.7
MEAN NO. OF SITES UNACCOUNTED FOR	1.0	0.8	0.7	---	0.9
MEAN ESTROUS CYCLE LENGTH (DAYS)	---	---	---	4.2	---
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	---	---	---	---	---
DATE OF STUDY INITIATION	10/26/98	11/17/98	1/12/99	2/3/99	7/27/98
DATE OF STUDY TERMINATION	12/13/98	4/13/98	3/1/99	6/15/99	9/12/98
VEHICLE	20 mM Na- Phosphate	21 mM Na- Phosphate	Sponsor Supplied	Sponsor Supplied	0.75% Methyl- cellulose
ROUTE	SubQ	SubQ	SubQ	SubQ	Gavage

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STUDY NO.	26	27	28	29	30
TOTAL NO. MALES IN CONTROL GROUP	25	---	---	25	---
MALE MATING INDEX (%)	96.0	---	---	96.0	---
MALE FERTILITY (%)	92.0	---	---	96.0	---
TOTAL NO. FEMALES IN CONTROL GROUP	25	25	25	25	25
FEMALE MATING INDEX (%)	96.0	---	---	96.0	---
FEMALE FERTILITY (%)	92.0	---	---	96.0	---
TOTAL NO. FEMALES SELECTED TO DELIVER	25	25	25	25	25
NO. WHICH DELIVERED	23	22	23	24	25
NO. WHICH DID NOT DELIVER	1	3	1	1	0
NO. DIED	0	0	0	0	0
NO. OF DAMS WITH TOTAL LITTER LOSS	0	1	0	0	0
MEAN PRECOITAL INTERVAL (DAYS)	2.4	---	---	2.9	---
MEAN GESTATION LENGTH (DAYS)	---	21.7	21.7	21.7	21.7
MEAN NO. PUPS BORN	---	15.2	16.3	14.8	15.1
MEAN VIABLE LITTER SIZE PND 0	---	14.9	15.9	14.7	15.0
TOTAL NO. DEAD PUPS PND 0	---	6	9	4	2
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	---	1.80	2.41	1.12	0.53
MEAN DEAD PUPS/LITTER	---	0.27	0.39	0.17	0.08
PUP SEX RATIO					
MALES (% PER LITTER)	---	50.8	54.0	50.8	48.5
FEMALES (% PER LITTER)	---	49.2	46.0	49.2	51.5
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	---	15.8	16.7	---	16.0
MEAN NO. OF SITES UNACCOUNTED FOR	---	0.6	0.5	---	1.0
MEAN ESTROUS CYCLE LENGTH (DAYS)	---	---	---	4.1	---
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	---	---	---	---	---
DATE OF STUDY INITIATION	8/18/98	9/13/99	8/2/99	8/17/99	8/9/99
DATE OF STUDY TERMINATION	12/29/98	10/31/99	9/12/99	1/10/00	9/25/99
VEHICLE	0.75% Methyl-cellulose	0.1 M Na-Phosphate	0.4% Methyl Cellulose	0.4% Methyl cellulose	Methyl-cellulose
ROUTE	Gavage	Gavage	Gavage	Gavage	Intranasal

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<b>STUDY NO.</b>	<b>31</b>	<b>32</b>
TOTAL NO. MALES IN CONTROL GROUP	25	40
MALE MATING INDEX (%)	82.6	97.5
MALE FERTILITY (%)	73.9	95.0
TOTAL NO. FEMALES IN CONTROL GROUP	25	40
FEMALE MATING INDEX (%)	95.8	97.5
FEMALE FERTILITY (%)	87.5	95.0
TOTAL NO. FEMALES SELECTED TO DELIVER	24	40
NO. WHICH DELIVERED	21	38
NO. WHICH DID NOT DELIVER	3	2
NO. DIED	1	0
NO. OF DAMS WITH TOTAL LITTER LOSS	0	0
MEAN PRECOITAL INTERVAL (DAYS)	3.2	2.8
MEAN GESTATION LENGTH (DAYS)	---	21.6
MEAN NO. PUPS BORN	---	15.4
MEAN VIABLE LITTER SIZE PND 0	---	15.2
TOTAL NO. DEAD PUPS PND 0	---	9
% DEAD PUPS PND 0 [(DEAD PUPS/TOTAL NO. OF PUPS)*100]	---	1.54
MEAN DEAD PUPS/LITTER	---	0.24
PUP SEX RATIO		
MALES (% PER LITTER)	---	48.8
FEMALES (% PER LITTER)	---	51.2
MEAN NO. OF FORMER IMPLANTATION SITES AT WEANING	---	15.9
MEAN NO. OF SITES UNACCOUNTED FOR	---	0.5
MEAN ESTROUS CYCLE LENGTH (DAYS)	4.2	---
MEAN PRIMORDIAL FOLLICLE COUNT/10 SECTIONS/DAM	---	---
DATE OF STUDY INITIATION	8/31/99	6/17/96
DATE OF STUDY TERMINATION	1/11/00	11/15/96
VEHICLE	Methyl-cellulose	Filtered Air
ROUTE	Intranasal	Inhalation

STUDY NO.	1	2	3	4	5
MEAN NO. PUPS BORN	12.0	12.9	13.6	13.5	13.0
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	92.3	95.9	97.8	98.7	97.9
DAYS 4-21 (AFTER SELECTION)	99.5	98.5	100.0	99.1	99.6
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	7.4	7.1	7.2	7.0	7.2
DAY 4 (BEFORE SELECTION)	10.6	10.6	10.1	10.2	10.4
DAY 7	17.2	17.2	16.4	16.8	15.1
DAY 14	33.7	35.8	29.9	35.0	27.8
DAY 21	53.8	58.0	45.4	53.1	44.7
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	6.9	6.8	6.8	6.6	6.7
DAY 4 (BEFORE SELECTION)	10.0	10.0	9.5	9.7	9.7
DAY 7	16.1	16.3	15.5	16.2	14.1
DAY 14	32.1	34.3	28.9	33.9	26.3
DAY 21	51.6	54.8	44.1	51.0	42.2
ANOGENITAL DISTANCE (PND 1)					
MALE	---	---	---	---	---
FEMALE	---	---	---	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	---	43.3	---	46.7	---
MEAN BODY WEIGHT AT ACQUISITION	---	---	---	230.4	---
MEAN VAGINAL PATENCY (PND)	---	32.2	---	33.1	---
MEAN BODY WEIGHT AT ACQUISITION	---	---	---	106.9	---
VEHICLE	Basal Feed	Basal Feed	Basal Feed	Basal Feed	Filtered Air
ROUTE	Diet	Diet	Diet	Diet	Inhalation

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STUDY NO.	6	7	8	9	10
MEAN NO. PUPS BORN	13.4	15.0	13.2	13.2	13.3
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	96.0	91.3	95.2	97.7	97.4
DAYS 4-21 (AFTER SELECTION)	96.1	100.0	99.5	100.0	96.0
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	7.1	6.8	6.8	7.3	7.1
DAY 4 (BEFORE SELECTION)	10.2	9.6	9.6	10.5	10.4
DAY 7	15.3	15.3	15.4	16.4	16.6
DAY 14	28.5	31.1	31.8	33.1	33.4
DAY 21	45.3	51.0	49.5	50.6	52.1
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	6.7	6.5	6.3	6.9	6.7
DAY 4 (BEFORE SELECTION)	9.5	9.1	9.0	10.0	9.7
DAY 7	14.3	14.5	14.6	15.7	15.6
DAY 14	27.5	29.7	30.8	32.2	31.2
DAY 21	43.5	47.9	47.7	49.2	49.0
ANOGENITAL DISTANCE (PND 1)					
MALE	---	5.3	5.7	---	---
FEMALE	---	3.2	3.9	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	45.0	---	44.6	---	44.6
MEAN BODY WEIGHT AT ACQUISITION	217.9	---	223.0	---	232.0
MEAN VAGINAL PATENCY (PND)	33.4	---	34.4	---	32.6
MEAN BODY WEIGHT AT ACQUISITION	105.1	---	118.9	---	112.2
VEHICLE	Filtered Air	Deionized Water	Deionized Water	Basal Feed	Basal Feed
ROUTE	Inhalation	Gavage	Gavage	Diet	Diet

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STUDY NO.	11	12	13	14	15
MEAN NO. PUPS BORN	13.7	13.4	13.5	14.9	15.1
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	97.5	96.2	96.4	95.4	94.0
DAYS 4-21 (AFTER SELECTION)	95.4	98.5	---	---	99.5
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	6.9	6.6	7.0	6.9	7.1
DAY 4 (BEFORE SELECTION)	9.1	8.9	9.3	9.5	10.0
DAY 7	11.7	12.3	---	---	---
DAY 14	22.5	24.6	---	---	32.5
DAY 21	34.9	38.2	---	---	51.4
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	6.4	6.2	6.5	6.4	6.7
DAY 4 (BEFORE SELECTION)	8.5	8.4	8.8	9.0	9.5
DAY 7	11.0	11.5	---	---	15.4
DAY 14	21.2	23.4	---	---	31.7
DAY 21	33.3	37.0	---	---	49.1
ANOGENITAL DISTANCE (PND 1)					
MALE	5.3	5.3	---	---	---
FEMALE	3.3	3.1	---	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)					
MEAN BODY WEIGHT AT ACQUISITION	---	---	---	---	---
MEAN VAGINAL PATENCY (PND)					
MEAN BODY WEIGHT AT ACQUISITION	---	---	---	---	---
VEHICLE	Filtered Air	Filtered Air	Filtered Air	Filtered Air	0.4% Methyl- cellulose
ROUTE	Inhalation	Inhalation	Inhalation	Inhalation	Gavage

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STUDY NO.	16	17	18	19	20
MEAN NO. PUPS BORN	14.3	15.5	14.8	---	---
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	96.9	94.9	97.5	---	---
DAYS 4-21 (AFTER SELECTION)	---	100.0	100.0	---	---
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	7.2	6.7	7.1	---	---
DAY 4 (BEFORE SELECTION)	10.3	9.2	10.2	---	---
DAY 7	---	13.1	16.5	---	---
DAY 14	---	25.1	34.9	---	---
DAY 21	---	39.5	54.7	---	---
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	6.7	6.3	6.7	---	---
DAY 4 (BEFORE SELECTION)	9.8	8.7	9.7	---	---
DAY 7	---	12.6	15.9	---	---
DAY 14	---	24.1	33.7	---	---
DAY 21	---	38.0	52.4	---	---
ANOGENITAL DISTANCE (PND 1)					
MALE	---	4.8	---	---	---
FEMALE	---	2.7	---	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	41.6	---	41.8	---	---
MEAN BODY WEIGHT AT ACQUISITION	210.5	---	212.2	---	---
MEAN VAGINAL PATENCY (PND)	32.5	---	33.0	---	---
MEAN BODY WEIGHT AT ACQUISITION	107.4	---	117.7	---	---
VEHICLE	0.4% Methyl- cellulose	Basal Feed	1% Avicel- 5% Tween 80	1% Avicel- 5% Tween 80	1% Avicel- 5% Tween 80
ROUTE	Gavage	Diet	Gavage	Gavage	Gavage

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STUDY NO.	21	22	23	24	25
MEAN NO. PUPS BORN	14.1	15.0	14.8	---	14.8
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	97.4	97.5	97.8	---	99.3
DAYS 4-21 (AFTER SELECTION)	99.5	---	100.0	---	100.0
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	7.1	7.1	7.4	---	6.8
DAY 4 (BEFORE SELECTION)	10.2	10.4	10.7	---	9.6
DAY 7	16.7	---	17.8	---	15.7
DAY 14	34.8	---	36.5	---	32.4
DAY 21	53.3	---	55.3	---	52.4
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	6.8	6.7	6.9	---	6.5
DAY 4 (BEFORE SELECTION)	9.7	9.7	10.0	---	9.1
DAY 7	16.1	---	16.8	---	14.9
DAY 14	33.5	---	34.7	---	31.2
DAY 21	50.9	---	53.1	---	50.1
ANOGENITAL DISTANCE (PND 1)					
MALE	---	---	---	---	---
FEMALE	---	---	---	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	---	43.0	---	42.4	---
MEAN BODY WEIGHT AT ACQUISITION	---	227.1	---	229.0	---
MEAN VAGINAL PATENCY (PND)	---	32.4	---	31.9	---
MEAN BODY WEIGHT AT ACQUISITION	---	115.2	---	109.9	---
VEHICLE	20 mM Sodium Phosphate	21 mM Sodium Phosphate	Sponsor Supplied	Sponsor Supplied	0.75% Methyl-cellulose
ROUTE	SubQ	SubQ	SubQ	SubQ	Gavage

STUDY NO.	26	27	28	29	30
MEAN NO. PUPS BORN	---	15.2	16.3	14.8	15.1
PUP SURVIVAL INDICES (PND)					
BIRTH-4 (BEFORE SELECTION)	---	92.1	93.8	96.0	98.0
DAYS 4-21 (AFTER SELECTION)	---	99.3	100.0	---	97.0
MEAN PUP WEIGHTS (g) MALE (PND)					
DAY 1	---	6.8	6.7	7.1	6.5
DAY 4 (BEFORE SELECTION)	---	9.4	9.4	9.8	8.6
DAY 7	---	15.1	15.1	---	13.0
DAY 14	---	31.3	32.9	---	27.1
DAY 21	---	48.1	50.9	---	41.3
MEAN PUP WEIGHTS (g) FEMALE (PND)					
DAY 1	---	6.4	6.4	6.6	6.1
DAY 4 (BEFORE SELECTION)	---	8.9	8.8	9.1	8.1
DAY 7	---	14.1	14.3	---	12.2
DAY 14	---	29.4	31.2	---	25.7
DAY 21	---	45.0	48.0	---	39.4
ANOGENITAL DISTANCE (PND 1)					
MALE	---	---	---	---	---
FEMALE	---	---	---	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	44.3	46.1	---	43.8	---
MEAN BODY WEIGHT AT ACQUISITION	226.6	247.9	---	229.2	---
MEAN VAGINAL PATENCY (PND)	33.2	31.9	---	33.2	---
MEAN BODY WEIGHT AT ACQUISITION	119.1	103.8	---	119.5	---
VEHICLE	0.75% Methyl-cellulose	0.1 M Sodium Phosphate	0.4% Methyl Cellulose	0.4% Methyl cellulose	Methyl-cellulose
ROUTE	Gavage	Gavage	Gavage	Gavage	Intranasal

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<b>STUDY NO.</b>	<b>31</b>	<b>32</b>
MEAN NO. PUPS BORN	---	15.4
PUP SURVIVAL INDICES (PND)		
BIRTH-4 (BEFORE SELECTION)	---	97.2
DAYS 4-21 (AFTER SELECTION)	---	99.3
MEAN PUP WEIGHTS (g) MALE (PND)		
DAY 1	---	7.1
DAY 4 (BEFORE SELECTION)	---	10.1
DAY 7	---	14.8
DAY 14	---	27.2
DAY 21	---	45.5
MEAN PUP WEIGHTS (g) FEMALE (PND)		
DAY 1	---	6.7
DAY 4 (BEFORE SELECTION)	---	9.6
DAY 7	---	14.0
DAY 14	---	26.3
DAY 21	---	43.8
ANOGENITAL DISTANCE (PND 1)		
MALE	---	---
FEMALE	---	---
MEAN BALANOPREPUTIAL SEPARATION (PND)	49.0	---
MEAN BODY WEIGHT AT ACQUISITION	248.0	---
MEAN VAGINAL PATENCY (PND)	33.7	---
MEAN BODY WEIGHT AT ACQUISITION	102.8	---
VEHICLE	Methyl- cellulose	Filtered Air
ROUTE	Intranasal	Inhalation

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STUDY NO.	1	2	3	4	5
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	2.55	2.64	2.73	1.95	2.7
MEAN RIGHT TESTIS WEIGHT (G)	1.7	1.85	1.72	1.84	1.71
MEAN LEFT TESTIS WEIGHT (G)	1.71	1.88	1.74	1.85	1.71
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	0.71	0.75	0.74	0.74	0.71
MEAN LEFT EPIDIDYMIS WEIGHT (G)	0.72	0.76	0.72	0.75	0.72
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	0.3266	0.3293	0.3185	0.3164	0.3022
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	0.3197	0.3423	0.328	0.3295	0.327
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	85.2	89.1	99.3	87.0	87.3
LEFT EPIDIDYMIS	449.0	407.9	436.1	413.4	343.6
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	14.0	14.6	16.3	14.3	14.3
% MOTILE SPERM	84.9	82.4	85.5	87.6	80.0
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	98.6	99.4	99.9	99.6	99.0
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.7	0.5	0.0	0.3	0.5
HEAD ABSENT WITH NORMAL FLAGELLUM	0.6	0.1	0.0	0.1	0.5
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.1	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)	197.2	198.8	199.9	199.1	198.0
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	1.4	0.9	0.1	0.6	1.1
HEAD ABSENT WITH NORMAL FLAGELLUM	1.3	0.3	0.1	0.3	0.9
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.1	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
VEHICLE	Basal	Basal	Basal	Basal	Filtered
	Feed	Feed	Feed	Feed	Air
ROUTE	Diet	Diet	Diet	Diet	Inhalation

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STUDY NO.	6	7	8	9	10
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	2.05	1.88	---	2.8	1.76
MEAN RIGHT TESTIS WEIGHT (G)	1.7	1.72	---	1.73	1.79
MEAN LEFT TESTIS WEIGHT (G)	1.71	1.73	---	1.75	1.81
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	0.74	0.75	---	0.71	0.73
MEAN LEFT EPIDIDYMIS WEIGHT (G)	0.73	0.7	---	0.74	0.76
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	0.3269	0.3364	---	0.3157	0.321
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	0.3225	0.3242	---	0.328	0.3271
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	86.6	81.7	104.8	90.8	95.8
LEFT EPIDIDYMIS	517.5	410.6	534.3	452.1	416.4
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	14.2	13.4	17.2	14.9	15.7
% MOTILE SPERM	80.8	85.3	82.3	87.6	85.9
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	98.7	99.8	99.0	99.8	96.4
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.8	0.1	0.7	0.2	2.0
HEAD ABSENT WITH NORMAL FLAGELLUM	0.5	0.1	0.3	0.1	1.6
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)	197.4	199.6	198.0	199.5	192.8
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	1.6	0.3	1.5	0.3	4.0
HEAD ABSENT WITH NORMAL FLAGELLUM	1.0	0.1	0.5	0.2	3.2
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	0.0	0.0	0.0
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	0.0	0.0	0.0
VEHICLE	Filtered	Deionized	Deionized	Basal	Basal
	Air	Water	Water	Feed	Feed
ROUTE	Inhalation	Gavage	Gavage	Diet	Diet

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STUDY NO.	11	12	13	14	15
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	2.64	2.73	---	---	---
MEAN RIGHT TESTIS WEIGHT (G)	1.76	1.73	---	---	---
MEAN LEFT TESTIS WEIGHT (G)	1.71	1.76	---	---	---
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	0.7	0.72	---	---	---
MEAN LEFT EPIDIDYMIS WEIGHT (G)	0.7	0.7	---	---	---
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	0.3262	0.3174	---	---	---
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	0.3064	0.295	---	---	---
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	72.9	94.1	---	---	---
LEFT EPIDIDYMIS	456.0	467.9	---	---	---
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	11.9	15.4	---	---	---
% MOTILE SPERM	80.2	75.4	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	98.5	99.6	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.9	0.1	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	0.6	0.3	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.0	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	0.0	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)	197.0	199.2	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	1.9	0.2	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	1.1	0.6	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	0.0	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.1	0.0	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	0.0	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	0.0	---	---	---
VEHICLE	Filtered	Filtered	Filtered	Filtered	0.4% Methyl-
	Air	Air	Air	Air	cellulose
ROUTE	Inhalation	Inhalation	Inhalation	Inhalation	Gavage

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STUDY NO.	16	17	18	19	20
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	---	2.3	---	---	---
MEAN RIGHT TESTIS WEIGHT (G)	---	1.65	---	---	---
MEAN LEFT TESTIS WEIGHT (G)	---	1.67	---	---	---
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	---	0.64	---	---	---
MEAN LEFT EPIDIDYMIS WEIGHT (G)	---	0.64	---	---	---
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	---	0.2807	---	---	---
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	---	0.2943	---	---	---
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	---	96.6	---	---	---
LEFT EPIDIDYMIS	---	438.8	---	---	---
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	---	15.8	---	---	---
% MOTILE SPERM	---	80.9	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	---	97.8	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	1.2	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	1.0	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	0.0	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	0.0	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	0.0	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	0.0	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	0.0	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)	---	195.7	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	2.4	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	1.9	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	0.0	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	0.0	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	0.0	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	0.0	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	0.0	---	---	---
VEHICLE	0.4% Methyl-cellulose	Basal Feed	1% Avicel-5% Tween 80	1% Avicel-5% Tween 80	1% Avicel-5% Tween 80
ROUTE	Gavage	Diet	Gavage	Gavage	Gavage

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STUDY NO.	21	22	23	24	25
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	2.45	---	---	---	---
MEAN RIGHT TESTIS WEIGHT (G)	1.86	---	---	---	---
MEAN LEFT TESTIS WEIGHT (G)	1.86	---	---	---	---
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	0.74	---	---	---	---
MEAN LEFT EPIDIDYMIS WEIGHT (G)	0.73	---	---	---	---
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	0.316	---	---	---	---
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	0.3293	---	---	---	---
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	91.7	---	---	---	---
LEFT EPIDIDYMIS	478.5	---	---	---	---
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	15.0	---	---	---	---
% MOTILE SPERM	86.2	---	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	99.7	---	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.2	---	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	0.1	---	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	---	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	---	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	---	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	---	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	---	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)	199.3	---	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	0.4	---	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	0.2	---	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	0.0	---	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	0.0	---	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	0.0	---	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	---	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	0.0	---	---	---	---
VEHICLE	20 mM Sodium Phosphate	21 mM Sodium Phosphate	Sponsor Supplied	Sponsor Supplied	0.75% Methyl-cellulose
ROUTE	SubQ	SubQ	SubQ	SubQ	Gavage

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STUDY NO.	26	27	28	29	30
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	---	---	---	---	---
MEAN RIGHT TESTIS WEIGHT (G)	---	---	---	---	---
MEAN LEFT TESTIS WEIGHT (G)	---	---	---	---	---
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	---	---	---	---	---
MEAN LEFT EPIDIDYMIS WEIGHT (G)	---	---	---	---	---
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	---	---	---	---	---
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	---	---	---	---	---
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)					
LEFT TESTIS	---	---	---	---	---
LEFT EPIDIDYMIS	---	---	---	---	---
MEAN SPERM PRODUCTION RATE					
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	---	---	---	---	---
% MOTILE SPERM	---	---	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)					
NORMAL	---	---	---	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	---	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	---	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	---	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	---	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	---	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---	---	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)					
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	---	---	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	---	---	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	---	---	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	---	---	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	---	---	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---	---	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---	---	---	---
VEHICLE	0.75% Methyl-	0.1 M Sodium	0.4% Methyl-	0.4% Methyl-	Methyl-
ROUTE	cellulose	Phosphate	cellulose	cellulose	cellulose
	Gavage	Gavage	Gavage	Gavage	Intranasal

STUDY NO.	31	32
MEAN SEMINAL VESICLE/COAGULATING GLAND WEIGHTS (G)	---	---
MEAN RIGHT TESTIS WEIGHT (G)	---	---
MEAN LEFT TESTIS WEIGHT (G)	---	---
MEAN RIGHT EPIDIDYMIS WEIGHT (G)	---	---
MEAN LEFT EPIDIDYMIS WEIGHT (G)	---	---
MEAN RIGHT CAUDA EPIDIDYMIS WEIGHT (G)	---	---
MEAN LEFT CAUDA EPIDIDYMIS WEIGHT (G)	---	---
MEAN SPERM COUNT (NO. SPERM IN MILLIONS/GRAM OF TISSUE)		
LEFT TESTIS	---	---
LEFT EPIDIDYMIS	---	---
MEAN SPERM PRODUCTION RATE		
(NO. SPERM IN MILLIONS/GRAM OF TISSUE/DAY)	---	---
% MOTILE SPERM	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (%)		
NORMAL	---	---
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---
SPERM MORPHOLOGY DIFFERENTIAL COUNT (ABSOLUTE NUMBER)		
NORMAL SHAPED HEAD SEPARATED FROM FLAGELLUM	---	---
HEAD ABSENT WITH NORMAL FLAGELLUM	---	---
HEAD ABSENT WITH ABNORMAL FLAGELLUM	---	---
MISSHAPEN HEAD WITH NORMAL FLAGELLUM	---	---
MISSHAPEN HEAD WITH ABNORMAL FLAGELLUM	---	---
DEGENERATIVE FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---
OTHER FLAGELLAR DEFECTS WITH NORMAL HEAD	---	---
VEHICLE	Methyl- cellulose	Filtered Air
ROUTE	Intranasal	Inhalation

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## **APPENDIX F**

### Study Protocol



Study Number: WIL-186013

## PROTOCOL AMENDMENT VIII

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

**VII. Experimental Design:**

1) **N. Selection of F<sub>1</sub> Generation:**

Beginning on January 5, 2002, and continuing until January 14, 2002, surplus pups attaining PND 28 were retained as possible replacement animals for the F<sub>1</sub> generation. Necropsy of the remaining surplus pups occurred on January 15, 2002. A copy of the Study Director notification is attached.

2) **T. General Observations During the Experimental Period:**

**4. Examination of Offspring:**

**a. Appearance and Behavior:**

Please replace the 2<sup>nd</sup> sentence in this section with the following:

A detailed physical examination was recorded for each pup on PND 1, 4, 7, 14 and 21 and for pups selected for the F<sub>1</sub> generation on PND 28, 32 and 35.

**b. Body Weights:**

Please replace the sentence in this section with the following:

Each pup was weighed on PND 1, 4, 7, 14 and 21 and pups selected for the F<sub>1</sub> generation were also weighed on PND 28, 32 and 35.

WIL RESEARCH LABORATORIES, INC. 1407 GEORGE ROAD ASHLAND, OH 44805-9281 (419) 289-8700 FAX (419) 289-3650

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3) **X. Statistical Methods:**

**A. Parental In-Life Data:**

Please replace the last sentence in this section with the following:

Male and female fertility indices of the control group will be compared to each treated group by the Chi-Square Test with Yates' Correction Factor.

**C. Reasons for Protocol Modifications:**

- 1) Due to mortalities observed in the F<sub>1</sub> weanlings, surplus pups were retained as possible replacements until January 15, 2002.
- 2) Additional timepoints were added for the collection of clinical observations and body weights for pups selected to comprise the F<sub>1</sub> generation.
- 3) To correct a typographical error in the protocol.

Approved By:

**Oxo Process Panel of the  
American Chemistry Council**

*Barbara Francis*

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

*1/31/03*

Date

Prepared By:

**WIL Research Laboratories, Inc.**

*M. D. Nemecek*

Mark D. Nemecek, B.S., D.A.B.T.  
Study Director

*12/10/2002*

Date

*J. F. Holson*  
Joseph F. Holson, Ph.D.  
President, Director

*12/10/2002*

Date





Study Number: WIL-186013

**PROTOCOL AMENDMENT VII**

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

1) **X. Statistical Methods:**

**B. Litter Data:**

Pup weights will be analyzed by a nested analysis of covariance, ANCOVA, (pup weight nested within dams nested within groups with litter size as a covariant). Male and female pup weights will be analyzed separately.

C. Reason for Protocol Modification:

- 1) To modify the method for statistical analysis of pup weight.

Approved By:

**Oxo Process Panel of the  
American Chemistry Council**

Barbara Francis

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

1/31/03  
Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Neme

Mark D. Neme, B.S., D.A.B.T.  
Study Director

12/6/2002  
Date

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Study Number: WIL-186013

**PROTOCOL AMENDMENT VI**

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

1) **VIII. Anatomic Pathology:**

**C. Microscopic Examination:**

**1. F<sub>0</sub> and F<sub>1</sub> Animals Used for Breeding:**

The vaginas from 10 F<sub>0</sub> and F<sub>1</sub> females/group from the control and high exposure groups and from all F<sub>0</sub> and F<sub>1</sub> females dying spontaneously, euthanized *in extremis*, or that failed to breed, conceive or deliver offspring will be examined histopathologically.

C. Reasons for Protocol Modifications:

- 1) To correct the list of tissues to be examined histopathologically.

Approved By:

**Oxo Process Panel of the  
American Chemistry Council**

Barbara Francis

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

10/2/02  
Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemec

Mark D. Nemec, B.S., D.A.B.T.  
Study Director

9/27/2002  
Date

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Study Number: WIL-186013

## PROTOCOL AMENDMENT V

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

1) **VI. Specific (Non-Exposure Period) Maintenance Schedule:**

**B. Environmental Conditions:**

Controls will be set to maintain an average daily temperature of  $71 \pm 5^\circ\text{F}$  ( $22 \pm 3^\circ\text{C}$ ) and an average daily relative humidity of  $50 \pm 20\%$ . Temperature and relative humidity will be monitored continuously. Data for these two parameters will be scheduled for automatic collection on an hourly basis.

**VII. Experimental Design:**

Add the following, which is effective as of October 9, 2001:

2) **E. Generation of Exposure Atmospheres:**

The following table indicates the specific generation conditions for each exposure group.

<u>Chamber Number</u>	<u>Metering Device</u>	<u>Setting</u>	<u>Test Article Flow Rate (ml/min.)</u>	<u>Bead Column Temperature (<math>^\circ\text{C}</math>)</u>	<u>Internal Bead Column Temperature (<math>^\circ\text{C}</math>)</u>	<u>Flow Rate of Nitrogen for Vaporization (LPM)</u>	<u>Nominal Chamber Ventilation (LPM)</u>
1	NA	NA	NA	NA	NA	40.0	450
2	FMI	4.8	0.18-0.23	100	NA	20.0	450
3	FMI	3.8	0.50-0.72	100	NA	20.0	450
4	FMI	6.5	2.1	170	-70	40.0	450

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**F. Characterization of Exposure Atmospheres:**

Should be changed as follows:

3) **2. Actual Exposure Concentrations:**

Actual exposure concentrations will be determined approximately every 35 minutes using a gas chromatographic method.

The following table summarizes the operational conditions of the gas chromatograph and signal integrator:

GC Manufacturer	Hewlett-Packard
Model No.	5890 Series
Detector Type	FID
Detector Temperature	250°C
Column Diameter X Length	0.25 mm x 5 m
Column Type	DB-WAX
Fuel Gas	Hydrogen
Fuel Pressure	15 psig
Fuel Flowrate	43 ml/min.
Air Pressure	35 psig
Air Flowrate	311 ml/min.
Carrier Gas	Helium
Carrier Gas Pressure	34 psig
Carrier Gas Flowrate	7 ml/min
Injection Volume	0.25 ml
Retention Time	Approx 0.16 min.
Integrator Manufacturer	Hewlett-Packard
Model Number	3396A
Chart Zero Offset	0
Chart Attenuation	4
Chart Speed	1.0 cm/min.
Peak Area Rejection Value	0
Peak Threshold	4
Peak Width	0.04



Any changes to these operational parameters will be authorized by the Inhalation Department Director, Study Director or appropriate designee and recorded in the study records.

Prior to initiation of animal exposures, the instrument will be calibrated with a low set of four standards and a set of three high standards prepared in triplicate. Two calibration curves will be prepared and defined by 363, 635, 1088 and 1633 ppm standards for the low curve and 1633, 2267 and 2721 ppm standards for the high curve. A least-squares line will be fitted to the data set for each set of standards to provide a prime standard curve. Thereafter, once each day and prior to initiation of exposures, a calibration check will be performed using a single freshly prepared standard. This standard will be one of the six levels used for prime calibration, and each day a different one will be used. If the daily calibration check is within  $\pm 10\%$  of the prime calibration curve, the instrument was considered to be within normal calibration limits. The following table summarizes the standard preparation procedures:

Standard Concentration (ppm)	Volume of Test Article ( $\mu$ L)	Nominal Vaporization Temperature ( $^{\circ}$ C)	Nominal Vaporization Flow Rate (LPM)	Total Dilution Air Volume (L)
363	40.0	~80	3.0	30
635	70.0	~80	3.0	30
1088	120	~80	3.0	30
1633	180	~80	3.0	30
1633	180	~80	3.0	30
2267	250	~80	3.0	30
2721	300	~80	3.0	30

C. Reasons for Protocol Modifications:

- 1) The Metasys<sup>®</sup> Network, a system of sensors, hardware and software, has been monitoring the temperature and humidity for the duration of the study. Effective March 1, 2002, recording of temperature and humidity will be entirely electronic, and reporting of temperature and humidity data will be as outlined according to SOP T1-258.



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Protocol Amendment V  
Page Four

- 2) To clarify GC and generation system modifications following GC change and column repair.
- 3) To clarify exposure atmosphere characterization methods.

Approved By:

**Oxo Process Panel of the  
American Chemistry Council**

Barbara Francis

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

5/15/2002

Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemeec

Mark D. Nemeec, B.S., D.A.B.T.  
Study Director

4/25/2002

Date

Joseph F. Holson

Joseph F. Holson, Ph.D.  
President, Director

4/25/2002

Date





Study Number: WIL-186013

**PROTOCOL AMENDMENT IV**

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modification:

1) **VIII. Anatomic Pathology:**

**C. Microscopic Examination:**

In addition to the tissue list specified in the original protocol, all gross lesions identified in the F<sub>0</sub> and F<sub>1</sub> generation animals (all groups, including the control group) will be evaluated by light microscopy.

C. Reason for Protocol Modification:

- 1) To provide provision for microscopic examination of macroscopic tissue lesions in first and second generation adults (F<sub>0</sub> and F<sub>1</sub>) as this was omitted from the original protocol.

Approved By:

**Oxo Process Panel of the American Chemistry Council**

Barbara Francis

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

2/25/02

Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemecek

Mark D. Nemecek, B.S., D.A.B.T.  
Study Director

2/18/2002

Date

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Study Number: WIL-186013

**PROTOCOL AMENDMENT III**

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modification:

1) **VII. Experimental Design:**

**E. Generation of Exposure Atmospheres:**

Line 5 of paragraph one should begin with reference to Group 4, not Group 5.

C. Reason for Protocol Modification:

- 1) To correct a typographical error in the original Protocol.

Approved By:

**Oxo Process Panel of the American Chemistry Council**

Barbara Francis  
Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

12/18/01  
Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemecek  
Mark D. Nemecek, B.S., D.A.B.T.  
Study Director

12/18/2001  
Date

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Study Number: WIL-186013

**PROTOCOL AMENDMENT II**

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

1) **III. Study Schedule Data:**

Proposed Animal Arrival Date:	August 14, 2001
Proposed Experimental Start Date:	September 4, 2001
Proposed Experimental Termination Date:	July 15, 2002
Proposed Audited Report Date:	November 15, 2002

C. Reason for Protocol Modifications:

1) To document the study schedule data.

Approved By:

**Oxo Process Panel of the American Chemistry Council**

Barbara Francis  
Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

11/19/2001  
Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemeč  
Mark D. Nemeč, B.S., D.A.B.T.  
Study Director

11/14/2001  
Date

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Study Number: WIL-186013

## PROTOCOL AMENDMENT I

Sponsor: Oxo Process Panel of the American Chemistry Council

A. Title of Study:

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

B. Protocol Modifications:

VII. Experimental Design:

Add the following, which is effective as of August 28, 2000:

1) **E. Generation of Exposure Atmospheres:**

The following table indicates the specific generation conditions for each exposure group.

<u>Chamber Number</u>	<u>Metering Device</u>	<u>Setting</u>	<u>Test Article Flow Rate (ml/min.)</u>	<u>Bead Column Temperature (°C)</u>	<u>Internal Bead Column Temperature (°C)</u>	<u>Flow Rate of Nitrogen for Vaporization (LPM)</u>	<u>Nominal Chamber Ventilation (LPM)</u>
1	NA	NA	NA	100	NA	20	450
2	FMI	4.8	0.18-0.23	100	NA	20.0	450
3	FMI	3.8	0.50-0.72	100	NA	20.0	450
4	FMI	6.5	2.1	185	-70	36.0	450

**F. Characterization of Exposure Atmospheres:**

Should be changed as follows:

2) **2. Actual Exposure Concentrations:**

Actual exposure concentrations will be determined approximately every 35 minutes using a gas chromatographic method.

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The following table summarizes the operational conditions of the gas chromatograph and signal integrator:

GC Manufacturer	Hewlett-Packard
Model No.	5890 Series II
Detector Type	FID
Detector Temperature	250°C
Column Diameter X Length	0.25 mm x 5 m
Column Type	DB-WAX
Fuel Gas	Hydrogen
Fuel Pressure	35 psig
Fuel Flowrate	43 ml/min.
Air Pressure	37 psig
Air Flowrate	311 ml/min.
Carrier Gas	Helium
Carrier Gas Pressure	40 psig
Carrier Gas Flowrate	7 ml/min
Injection Volume	0.25 ml
Retention Time	Approx 0.65 min.
Integrator Manufacturer	Hewlett-Packard
Model Number	3396A
Chart Zero Offset	0
Chart Attenuation	4
Chart Speed	1.0 cm/min.
Peak Area Rejection Value	0
Peak Threshold	4
Peak Width	0.04

Any changes to these operational parameters will be authorized by the Inhalation Department Director, Study Director or appropriate designee and recorded in the study records.

Prior to initiation of animal exposures, the instrument will be calibrated with a low set of four standards and a set of three high standards prepared in triplicate. Two calibration curves will be prepared and defined by 363.



635, 1088 and 1633 ppm standards for the low curve and 1633, 2267 and 2721 ppm standards for the high curve. A least-squares line will be fitted to the data set for each set of standards to provide a prime standard curve. Thereafter, once each day and prior to initiation of exposures, a calibration check will be performed using a single freshly prepared standard. This standard will be one of the seven levels used for prime calibration, and each day a different one will be used. If the daily calibration check is within  $\pm 10\%$  of the prime calibration curve, the instrument was considered to be within normal calibration limits. The following table summarizes the standard preparation procedures:

Standard Concentration (ppm)	Volume of Test Article ( $\mu\text{L}$ )	Nominal Vaporization Temperature ( $^{\circ}\text{C}$ )	Nominal Vaporization Flow Rate (LPM)	Total Dilution Air Volume (L)
363	40.0	71	3.0	30
635	70.0	71	3.0	30
1088	120	71	3.0	30
1633	180	71	3.0	30
1633	180	71	3.0	30
2267	250	71	3.0	30
2721	300	71	3.0	30

C. Reasons for Protocol Modifications:

- 1) To clarify test atmosphere generation methods.



WIL-186013  
Protocol Amendment I  
Page Four

- 2) To clarify exposure atmosphere characterization methods.

Approved By:

**Oxo Process Panel of the  
American Chemistry Council**

Barbara Francis

Barbara Francis  
Oxo Process Panel Manager  
Sponsor Representative

11/1/01

Date

Prepared By:

**WIL Research Laboratories, Inc.**

Mark D. Nemec

Mark D. Nemec, B.S., D.A.B.T.  
Study Director

10/29/2001

Date

Joseph F. Holson

Joseph F. Holson, Ph.D.  
President, Director

10/30/2001

Date





**PROTOCOL**

**AN INHALATION TWO-GENERATION  
REPRODUCTIVE TOXICITY STUDY OF ISOBUTANOL IN RATS**

**Submitted To:**

**Oxo Process Panel  
of the  
American Chemistry Council**  
1300 Wilson Boulevard  
Arlington, VA 22209

**WIL Research Laboratories, Inc.**  
1407 George Road  
Ashland, OH 44805-9281

WIL RESEARCH LABORATORIES, INC. 1407 GEORGE ROAD ASHLAND, OH 44805-9281 (419) 289-8700 FAX (419) 289-3650

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- I. Objective:** To determine the potential adverse effects of the test article on reproduction in a two-generation study. This will include determining the effects of the test article on male and female reproductive processes including gonadal function, estrous cyclicity, mating behavior, conception, gestation, parturition, lactation, weaning and on growth and development of the offspring. One litter will be produced in each generation. If effects are observed in the first mating of the generation, a second mating may be considered. One litter produced by each mating pair will be the objective of the F<sub>0</sub> and F<sub>1</sub> generations.

This study is subject to the United States Environmental Protection Agency (EPA) Health Effects Test Guidelines OPPTS 870.3800, Reproduction and Fertility Effects, August 1998.

**II. Personnel Involved in the Study:**

**A. Sponsor Representative:**

Barbara Francis  
Oxo Process Panel Manager

**B. WIL Study Director:**

Mark D. Nemecek, B.S., D.A.B.T.  
Director, Developmental and  
Reproductive Toxicology

**C. WIL Deputy Directors:**

Dan Kirkpatrick, Ph.D., D.A.B.T.  
Director, Inhalation Toxicology

Bennett J. Varsho, B.S., L.A.T.G.  
Staff Toxicologist, Developmental  
and Reproductive Toxicology

**D. WIL Departmental Responsibilities:**

Joseph F. Holson, Ph.D.  
President, Director



Donald G. Stump, Ph.D., D.A.B.T.  
Associate Director, Developmental  
and Reproductive Toxicology

Jeffrey A. Pitt, Ph.D.  
Staff Toxicologist, Developmental  
and Reproductive Toxicology

John F. Knapp, B.S.  
Senior Operations Director, Developmental,  
Reproductive and Neurotoxicology

Charlene A. Weygandt, B.S.  
Manager, Technical Report Writing

Ronald E. Wilson, B.S.  
Director, Informational Systems

Sally A. Keets, A.S.  
Manager II, Vivarium

Carol A. Kopp, B.S.  
Group Supervisor, Gross Pathology and  
Developmental Toxicology Laboratory

Daniel W. Sved, Ph.D.  
Director, Metabolism, Analytical Chemistry

Deborah L. Little, B.S., RQAP-GLP  
Manager II, Quality Assurance

Karen S. Regan, D.V.M., D.A.C.V.P., D.A.B.T.  
Director, Pathology and Veterinary Medicine

Barbara L. Smith, D.V.M., M.S., Ph.D.,  
D.A.C.V.S.  
Director, Laboratory and Animal Resources

### III. Study Schedule Data:

Proposed Animal Arrival Date: To be added by Protocol Amendment.

Proposed Experimental Start Date: To be added by Protocol Amendment.



Proposed Experimental Termination Date: To be added by Protocol Amendment.

Proposed Audited Report Date: To be added by Protocol Amendment.

**IV. Test Article Data:**

- A. Identification:** Isobutanol
- B. CAS Number:** 78-83-1
- C. Lot Number:** UCC Batch No.: 0000015867
- D. Purity:** 99.8%
- E. Stability:** The test article is considered to be stable under the storage conditions provided by the Sponsor. Stability data will be generated in the course of the study as per protocol section VII.G.2.
- F. Physical Description:** To be documented by WIL Research Laboratories, Inc.
- G. Storage Conditions:** Room temperature
- H. Reserve Samples:** A reserve sample of the test article will be taken in accordance with standard operating procedures and stored in the Archives at WIL Research Laboratories, Inc.
- I. Personnel Safety Data:** To be provided by the Sponsor. It is the responsibility of the Sponsor to notify the testing facility of any special handling requirements for the test article. A material safety data sheet (MSDS) should accompany the test article upon arrival at the laboratory.

**V. Test System:**

- A. Species:** Rat.
- B. Strain:** Sprague Dawley CrI:(SD)IGS BR



- C. Source:** Charles River Laboratories  
Raleigh, NC.
- D. Number on Study:** At randomization 120 Males and 120 Females  
(maximum of 135 Males and 135 Females  
purchased)
- E. Body Weight Range:** At start of in-life Phase: Males 200 - 300 g  
Females 150 - 250 g
- F. Approximate Age:** At start of in-life Phase: Males and Females  
42-63 days
- G. Identification System:** The F<sub>0</sub> animals will be uniquely identified by  
a Monel<sup>®</sup> metal eartag displaying the animal  
number. Individual cage cards will be affixed  
to each cage and will display the animal  
number, group number, study number,  
exposure level and sex. The F<sub>1</sub> pups selected  
to comprise the F<sub>1</sub> generation will be  
individually identified by an eartag following  
selection.
- H. Justification for Selection:** This species and strain of animal has been  
recognized as appropriate for reproduction  
studies. WIL Research Laboratories, Inc. has  
reproductive historical control data for the  
CrI:CD<sup>®</sup>(SD)IGS BR rat. The CrI:CD<sup>®</sup>  
(SD)IGS BR rat has been proven susceptible  
to the effects of reproductive toxicants.

#### **VI. Specific (Non-Exposure Period) Maintenance Schedule:**

##### **A. Animal Housing:**

F<sub>0</sub> animals will be housed three per cage by sex in clean suspended wire-mesh cages for a minimum of three days and a maximum of five days following receipt. Thereafter, all animals will be individually housed in clean suspended wire-mesh cages in an environmentally controlled room during the remainder of quarantine and continuing until mating. The cages will be elevated above cage-board or other suitable material, which will be changed at least three times each week. During cohabitation the females will be paired (1 male:1 female) with a male from the same exposure group in a suspended wire-mesh cage. Following successful mating the females will be housed individually in a plastic



cage containing ground corn cob nesting material (Bed-O'Cobs®) and will remain in these cages throughout lactation. After weaning, the females will be returned to suspended wire-mesh cages until euthanasia. The cages will be subject to routine cleaning at a frequency consistent with maintaining good animal health and Standard Operating Procedures. The facilities at WIL Research Laboratories, Inc. are fully accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC International).

**B. Environmental Conditions:**

Controls will be set to maintain temperature at  $72^{\circ} \pm 5^{\circ}\text{F}$  and relative humidity at 30-70%. Air handling units will be set to provide approximately 10 fresh air changes per hour. Fluorescent lighting controlled by light timers will provide illumination for a 12-hour light (6:00 a.m. - 6:00 p.m.)/dark photoperiod. Temperature and relative humidity will be monitored continuously and recorded once daily.

**C. Drinking Water:**

Reverse osmosis-purified water will be available *ad libitum* except during the daily exposure period. Filters servicing the automatic watering system are changed regularly according to Standard Operating Procedures. The municipal water supplying the laboratory is analyzed according to WIL Standard Operating Procedure on a yearly basis for heavy metals and pesticides to assure that no contaminants are present in concentrations that would be expected to affect the outcome of the study.

**D. Basal Diet:**

PMI Nutrition International, Inc. Certified Rodent LabDiet® 5002 will be offered *ad libitum* during the study except during the daily exposure period. Periodic analyses of the certified feed are performed by the manufacturer to ensure that heavy metals and pesticides are not present at concentrations that would be expected to affect the outcome of the study; results of the analyses are provided to WIL Research Laboratories, Inc. by the manufacturer. Feeders will be changed and sanitized once per week.

**VII. Experimental Design:**

**A. Animal Receipt and Acclimation:**

Each animal will be inspected by a qualified technician upon receipt. Rats judged to be in good health and suitable as test animals will be immediately



placed in quarantine for a minimum of 10 days. All rats will be initially weighed and permanently identified with a metal eartag. During the quarantine period each rat will be observed twice daily for changes in general appearance and behavior. Prior to the start of the in-life phase, those animals judged to be suitable test subjects will be identified.

**B. Randomization:**

At the conclusion of the quarantine period, animals judged to be suitable test subjects and meeting acceptable body weight requirements, will be assigned at random using a computerized randomization procedure which ensures homogeneity of group means and variances for body weight. Weight variation of the animals will not exceed  $\pm 20\%$  of the overall mean for each sex. At this time, the animal numbers and corresponding body weights will be entered into the WIL Toxicology Data Management System (WTDMS™). A printout containing the animal numbers and individual group assignments will be generated based on body weight stratification into a block design. Animals will then be arranged into the groups according to the printout. The control group and three test article exposure groups will consist of 30 males and 30 females.

**C. Route and Rationale of Test Article Administration:**

The route of administration will be whole body inhalation exposure because the intended use of the test article indicated that this would be a likely route of human exposure.

**D. Exposure Methods:**

Exposures will be conducted in four 2-m<sup>3</sup> stainless steel and glass exposure chambers. These chambers will be located in chamber room 4. Three chambers will be dedicated for the test article exposure groups, while the fourth chamber will be dedicated for the controls. The chambers will be operated under dynamic conditions, at a slight negative pressure (ca. 0.5 inches of water) with at least 12 to 15 air changes per hour. Oxygen content of the exposure atmosphere will be at least 19% and will be documented during the pre-study methods development phase. Temperature and relative humidity during exposures will be measured at approximately 30-minute intervals for each chamber and the daily average will be between 18°C and 26°C, and 30% to 60%, respectively.

All animals will be housed in normal animal colony rooms during non-exposure hours. For each day's exposure, the animals will be transferred to exposure caging, transported to the exposure chamber room, exposed for the requisite duration and returned to their home cages.



Animal cage batteries will be rotated through the various possible chamber locations on a daily basis in order to reduce the potential differences in exposure due to any residual non-homogeneity in chamber concentrations. The rotation procedure will be described in the study records.

#### E. Generation of Exposure Atmospheres:

Vapors of the test article will be generated using a glass-bead vaporization system similar to that shown in Figure 1 (page 30). The vaporization column consists of a glass tube filled with glass beads. For Groups 2 and 3, the column will be 2.4 cm inner diameter (ID), 40 cm long filled with 4- and 8- mm beads. For Group 5, the column will be 5 cm ID, 68 cm long and filled with 3-, 6-, 8- and 12-mm beads. Calibrated FMI pumps (model QG-6 with a 1/4-inch piston for Group 2, model QG-6 with a 3/8-inch piston for Group 3 and model QG 20 with a 1/4-inch piston for Group 4) will be used to meter the test article to the column.

Nitrogen will be metered to the bottom of the column using calibrated flowmeters. Vaporization occurs as the test article flows down through the beads and the nitrogen flows up through the column. The concentrated vapors will be piped to the chamber inlet where the concentration will be reduced to the desired level by mixing with the chamber ventilation air. The vaporization columns will be heated by heating tapes operated from Omega CN370 temperature controllers.

The following table indicates the specific generation conditions for each exposure group.

Chamber Ventilation Number	Metering Device	Setting	Test Article Flow Rate (ml/min.)	Bead Column Temperature (°C)	Flow Rate of Nitrogen for Vaporization (LPM)	Nominal Chamber (LPM)
1	NA	NA	NA	100	20.0	450
2	FMI	a	a	100	20.0	450
3	FMI	a	a	100	20.0	450
4	FMI	a	a	145	36.0	450

a - To be determined by protocol amendment.

Chamber ventilation flow rate will vary  $\pm 15\%$  to maintain the desired exposure concentrations; any other changes to these operational parameters will be authorized by the Inhalation Department Director, Assistant Director, Study Director or appropriate designee and recorded in the study records.



**F. Characterization of Exposure Atmospheres:****1. Nominal Exposure Concentrations:**

Nominal exposure concentrations were determined by weighing the containers of test article prior to and again after each day's exposure, and calculating the concentration from the weight difference and the total volume of air passed through each chamber during that day's exposure.

$$\text{ppm Isobutanol} = \frac{\text{Wt. Isobutanol} \cdot \text{Mol. Vol.} \cdot 10^6}{\text{MW} \cdot \text{Ch. Flow} \cdot \text{Exp. Dur.}}$$

Where:

Wt. Isobutanol	=	the weight of Isobutanol used during a given day's exposure, grams
Mol. Vol.	=	Molar volume at 730 mmHg and 21°C, 25.11 L/mole
10 <sup>6</sup>	=	ppm conversion factor
MW	=	Isobutanol molecular weight, 74.12 g/mol
Ch. Flow	=	Daily average chamber flowrate for a given day, in LPM
Exp. Dur.	=	Duration of a given day's exposure, in minutes

**2. Actual Exposure Concentrations:**

Actual exposure concentrations will be determined approximately every 35 minutes using a gas chromatographic method.

The following table summarizes the operational conditions of the gas chromatograph and signal integrator:

GC Manufacturer	Hewlett-Packard
Model No.	5890 Series II
Detector Type FID	
Detector Temperature	250°C
Column Diameter X Length	0.25 mm x 30 m
Column Type DB-WAX	
Fuel Gas	Hydrogen
Fuel Pressure	To be determined by protocol amendment
Fuel Flowrate	To be determined by protocol amendment
Air Pressure	To be determined by protocol amendment
Air Flowrate	To be determined by protocol amendment
Carrier Gas	Helium



Carrier Gas Pressure	To be determined by protocol amendment
Carrier Gas Flowrate	To be determined by protocol amendment
Injection Volume	0.25 ml
Retention Time	Approx. 1.64 min.
Integrator Manufacturer	Hewlett-Packard
Model Number	3396A
Chart Zero Offset	To be determined by protocol amendment
Chart Attenuation	To be determined by protocol amendment
Chart Speed	To be determined by protocol amendment
Peak Area Rejection Value	To be determined by protocol amendment
Peak Threshold	To be determined by protocol amendment
Peak Width	To be determined by protocol amendment

Any changes to these operational parameters will be authorized by the Inhalation Department Director, Assistant Director, Study Director or appropriate designee and recorded in the study records.

Under the control of a LabVIEW® data acquisition virtual instrument device (DAVID), the integrator operates a gas-sampling valve with a 0.25-ml sample loop, displays the chromatogram, calculates the area under the sample peak, and sends the area data to DAVID. DAVID uses a slope and intercept, from dual GC calibration curves, to calculate the measured concentration in parts per million (ppm).

The GC will be calibrated using standards prepared in Tedlar® gas bags. The gas bag standards will be prepared as follows: A known volume of test article will be injected into a heated (71°C) glass vaporization bulb. Compressed air will be metered into the bulb to vaporize and dilute the test article. The total volume of compressed air used will be measured with a dry test meter. The resulting vapors will be collected in 40-liter gas bags.

Prior to initiation of animal exposures, the instrument will be calibrated with sets of five standards prepared in triplicate. One calibration curve will be prepared and defined by 363, 635, 1088, 1633 and 2721 ppm standards. A least-squares line will be fitted to the data set to provide a prime standard curve. Thereafter, once each day and prior to initiation of exposures, a calibration check will be performed using a single freshly prepared standard. This standard will be one of the five values used for prime calibration, and each day a different one will be used. If the daily calibration check is within  $\pm 10\%$  of the prime calibration curve, the instrument will be considered to be



within normal calibration limits. The following table summarizes the standard preparation procedures:

Standard Concentration (ppm)	Volume of Test Article (µL)	Nominal Vaporization Temperature (°C)	Nominal Vaporization Flow Rate (LPM)	Total Dilution Air Volume (L)
363	40	71	3.0	30
635	70	71	3.0	30
1088	120	71	3.0	30
1633	180	71	3.0	30
2721	300	71	3.0	30

### 3. Evaluation of Homogeneity of Exposure Atmospheres:

Evaluation of the homogeneity of exposure concentrations will be accomplished during the methods development phase of the study prior to animal exposures. Four test locations and a reference location will be used for these determinations. The test locations will be Right Upper Rear, Left Lower Rear, Right Lower Front, Left Upper Front, identified as 1, 2, 3 and 4, respectively. Samples will be collected as rapidly as possible in the following order: reference location, test location 1, reference location, test location 2, reference location, test location 3, reference location and test location 4. For each test location, the measured concentration will be calculated as a percent difference from the reference location. The homogeneity determination will be performed in triplicate for each test article exposure chamber. The spatial homogeneity for a chamber will be considered acceptable if the mean percent from reference (for triplicate determinations) for each test location is  $\leq 10\%$ .

### 4. Aerosol Monitoring:

The control and high-concentration chambers will be monitored for aerosol formation. During method development, a light-scattering aerosol photometer (MIE, Inc., Billerica, MA, or equivalent) will be used.

## G. Test Article Characterization:

### 1. Purity Analysis:

Prior to initiation of the previous range-finding study (WIL-186023) and after completion of this study, five-gram samples of the test article will be sent to:



Nancy Broyles  
 Union Carbide Corporation  
 Building 770  
 3200/330 Kanawha Turnpike  
 South Charleston, WV 25303

Duplicate 10-ml samples of the test article will be collected from each test article container prior to initial use. They will be sent to the Analytical Chemistry Department of WIL Research Laboratories, Inc., where the samples from each container will be analyzed by GC/FID. Purity of isobutanol will be expressed as area percent. The unused duplicate samples will be stored in reserve until no longer needed.

## 2. Stability Analysis:

Samples will be collected and analyzed at the end of use of each test article container following the same procedure used for the initial purity samples, i.e., duplicate 10 ml samples provided to the Analytical Chemistry Department for analysis and reserve; purity to be established by GC/FID and expressed as area percent. The resulting isobutanol concentrations will be compared to time zero values as and assessment of stability.

## H. Organization of Test Groups, Exposure Levels and Treatment Regimen:

### 1. Organization of Test Groups:

The exposure levels have been determined from the results of previous studies and were provided by the Sponsor Representative after consultation with the WIL Study Director. The following diagram presents the study group arrangement.

Group Number	Test Article	Exposure level (ppm)	Number of Animals	
			Male	Female
1	Filtered Air	0	30	30
2	Isobutanol	500	30	30
3	Isobutanol	1000	30	30
4	Isobutanol	2500	30	30



## 2. Treatment Regimen:

The test article will be administered as a daily six-hour exposure according to the following schedule. All animals will be exposed at approximately the same time each day. Exposures will be conducted seven days per week.

### a. F<sub>0</sub> Generation:

#### 1) Males:

Following randomization, F<sub>0</sub> male animals will be exposed for six hours per day for a minimum of 70 days prior to mating and continuing until euthanasia.

#### 2) Females:

Following randomization, the F<sub>0</sub> female animals will be exposed for six hours per day for a minimum of 70 days prior to mating and continuing throughout mating and gestation until gestation day 20. To avoid confounding effects on nesting and nursing behavior, exposure for the F<sub>0</sub> dams will be suspended from gestation day 21 through lactation day 4; exposures will be re-initiated on lactation day 5 and will continue until one day prior to euthanasia.

### b. F<sub>1</sub> Generation (F<sub>0</sub> offspring):

The F<sub>1</sub> generation will potentially be exposed to the test article *in utero*, through nursing during lactation and via inhalation following weaning (PND 28). Following selection, F<sub>1</sub> male and female weanlings will be exposed for a minimum of 70 days prior to mating and continuing throughout mating, gestation and lactation until euthanasia beginning after weaning of F<sub>2</sub> pups.

### I. F<sub>0</sub> Determination of Estrous Cycles:

Daily vaginal smears will be performed to determine the stage of estrous beginning 21 days prior to initiation of the mating period and until evidence of copulation is observed. Smearing will continue for those females with no evidence of copulation until termination of the mating period. On the day of necropsy, a vaginal smear will also be performed to determine stage of estrus.



**J. F<sub>0</sub> Breeding:**

After a minimum of 70 days of exposure, one female will be cohoused with one male rat, avoiding sibling mating, of the same treatment group (Charles River Laboratories will supply non-litter mates). In instances of mortality to F<sub>0</sub> males, the remaining males of the same treatment group will be randomly chosen to breed a second unpaired female of the same group. Detection of mating will be confirmed by evidence of sperm in the vaginal smear or by the appearance of the vaginal copulatory plug. After confirmation of mating, the female will be returned to an individual suspended plastic cage containing nesting material, and the day will be designated as day 0 of gestation.

A maximum of 14 days or approximately three estrous periods will be allowed for mating. If no evidence of copulation is obtained after 14 days the animals will be separated without further opportunity for mating, and the female will be placed in a plastic cage containing nesting material.

**K. F<sub>0</sub> Parturition and Lactation and F<sub>1</sub> Litters:**

The day parturition is first observed will be designated as day 0 of lactation. Any difficulties at the time of parturition will be recorded. When parturition is judged complete, litters will be sexed, examined for gross malformations and the number of stillbirths and live pups will be recorded. Any changes or abnormalities in nesting and nursing behavior will be recorded. The dam and litter will remain together until weaning on lactation day 28.

**L. Reduction of F<sub>1</sub> and F<sub>2</sub> Litter Size and Identification:**

Upon completion of delivery, all pups will be individually identified by tattoo markings applied to the digits. To reduce variability among the litters, eight pups from each litter will be randomly selected of equal sex distribution, if possible, on lactation day 4. The surplus pups will be euthanized and discarded after weighing on postnatal day (PND) 4. If any of the surplus pups are found to exhibit external abnormalities they will undergo an examination as specified in section VII.T.4.C.1.

**M. Euthanasia of F<sub>0</sub> Generation:**

If there is no evidence of impaired fertility, the F<sub>0</sub> rats will be euthanized following selection of the F<sub>1</sub> offspring and completion of a detailed clinical observation. All F<sub>0</sub> rats will be subjected to a gross necropsy and tissues saved as described in Section VIII. Detailed evaluation of the process of spermatogenesis will be performed as described in Section VII.U. If treatment-related alterations in litter size are seen, the F<sub>0</sub> animals may be remated



to produce a second litter (after the approval of the Sponsor, additional cost). On the day of necropsy, a vaginal smear will be performed to determine the stage of estrus.

#### **N. Selection of F<sub>1</sub> Generation:**

Since fertility rates are seldom equal between groups, the following procedure will be utilized for selection. A minimum of one male and one female per litter will be selected. Thirty F<sub>1</sub> male and 30 F<sub>1</sub> female weanlings from each group will be selected prior to PND 28 (beginning on PND 21 of the first litters) to become parents of the F<sub>2</sub> generation. Additional males or females may be selected from a litter if necessary to obtain 30 males and 30 females for each group. Both the litters (from which the additional pups will be selected) and the pups will be selected randomly. Only pups not expected to survive due to physical anomalies will not be available for selection. A detailed evaluation of each pup excluded from selection will be recorded. The remaining unselected F<sub>1</sub> pups will receive a gross necropsy on PND 28 with emphasis on developmental morphology and organs of the reproductive system. Organ weights will be collected on one F<sub>1</sub> pup from each sex and litter on PND 28 as described in Section VIII. The selections will be performed by computer randomization.

#### **O. F<sub>1</sub> Postweaning Developmental Landmarks:**

The selected pups will be evaluated for attainment of the following landmarks of sexual maturity.

##### **1. Balanopreputial Separation:**

Each male pup (30 rats/group) will be observed for balanopreputial separation on PND 35 as described by Korenbrot *et al.*<sup>1</sup> Examination of the males will continue daily until balanopreputial separation is present. Individual body weights will be recorded on the day of acquisition.

##### **2. Vaginal Perforation:**

Each female pup (30 rats/group) will be observed for vaginal perforation on PND 25 as described by Adams *et al.*<sup>2</sup> Examination of the females will continue daily until vaginal perforation is present. Individual body weights will be recorded on the day of acquisition.

#### **P. F<sub>1</sub> Breeding:**

A replication of the breeding procedure and estrous cycle determinations described for the F<sub>0</sub> rats will be conducted with the avoidance of sibling matings.



**Q. F<sub>1</sub> Parturition and Lactation, F<sub>2</sub> Litters:**

This phase of the study will be conducted as described for the F<sub>0</sub> generation. If a treatment-related effect is observed on F<sub>1</sub> sex ratio or in sexual maturation of the F<sub>1</sub> generation, then anogenital distance will be measured for all F<sub>2</sub> pups on PND 1.

**R. Euthanasia of F<sub>1</sub> Generation:**

Following weaning of the F<sub>2</sub> pups, all F<sub>1</sub> parental rats will be euthanized, necropsied and tissues saved for histopathologic examination as described in Section VIII. Detailed evaluation of the process of spermatogenesis will be performed as described in Section VII.U. If treatment-related alterations in litter size are seen, the F<sub>1</sub> animals may be remated to produce a second litter (after the approval of the Sponsor, additional cost). On the day of necropsy, a vaginal smear will also be performed to determine stage of estrus.

**S. Euthanasia of F<sub>2</sub> Weanlings:**

The F<sub>2</sub> pups will receive a gross necropsy on PND 21 with emphasis on developmental morphology and organs of the reproductive system. Organ weights will be collected from one F<sub>2</sub> pup from each sex and litter (selected by computer randomization) as described in Section VIII.

**T. General Observations During The Experimental Period:****1. Parental Appearance and Behavior:**

The parental rats will be observed twice daily for moribundity and mortality; in addition, the animals were observed for appearance, behavior and pharmacotoxic signs within approximately one hour after completion of exposure. A detailed physical examination will be conducted weekly. The observations shall include, but are not limited to, changes in the skin, fur, eyes, mucous membranes, respiratory, circulatory, autonomic and central nervous system function, somatomotor activity and behavior patterns. Special attention will be paid to the degree of salivation and lacrimation, presence or absence of urination and defecation (including polyuria and diarrhea), pupil size, degree of palpebral closure, presence of convulsions, tremors or abnormal movements, presence of posture and gait abnormalities, the presence of any unusual or abnormal behaviors and any repetitive actions (stereotypies). During exposure, special attention will be given to the state of arousal and response to novel stimuli. During the period of expected parturition, the dams will be observed twice daily for dystocia, prolonged labor, delayed labor or other difficulties at parturition.



**2. Parental Body Weights:****a. Males:**

Recorded individually on days 0, 1, 4, 7 and on a weekly basis until euthanasia.

**b. Females:**

Recorded individually on days 0, 1, 4, 7 and on a weekly basis until evidence of copulation is observed.

Gestation days: 0, 4, 7, 11, 14 and 20.

Lactation days: 1, 4, 7, 14, 21 and 28.

Body weights will be recorded individually at weekly intervals following the conclusion of the lactation period until euthanasia.

**3. Parental Food Consumption\*:****a. Males:**

Recorded individually on days 0, 1, 4, 7 and on a weekly basis thereafter.

**b. Females:**

Recorded individually on days 0, 1, 4, 7 and on a weekly basis until evidence of copulation is observed.

Gestation days: 0, 4, 7, 11, 14 and 20.

Reported for intervals of: 0-4, 4-7, 7-11, 11-14 and 14-20.

Lactation days: 1, 4, 7, 14, 21 and 28.

Reported for intervals of: 1-4, 4-7, 7-14, 14-21 and 21-28.

Body weights will be recorded individually at weekly intervals following the conclusion of the lactation period until euthanasia.

\*Individual food consumption measurement will be suspended during periods of mating, as the animals are cohabitated at that time.



#### 4. Examination of Offspring:

##### a. Appearance and Behavior:

All pups will be observed daily for general appearance and behavior and survival during lactation. A detailed physical examination will be recorded for each pup on PND 1, 4, 7, 14, 21 and 28 (F<sub>1</sub> only). Any abnormalities in nesting and nursing behavior will be recorded. The pups will be sexed on PND 0, 4, 7, 14, 21 and 28 (F<sub>1</sub> only). If a treatment-related effect is observed on F<sub>1</sub> sex ratio or in sexual maturation of the F<sub>1</sub> generation, then anogenital distance will be measured for all F<sub>2</sub> pups on PND 1.

##### b. Body Weights:

Each pup will be weighed on PND 1, 4, 7, 14, 21 and 28 (F<sub>1</sub> only).

##### c. Pup Deaths:

###### 1) Pups - 0 to 4 Days of Age:

Stillborn pups and pups dying between birth and PND 4 will be dissected (including the heart and the brain examined by a mid-coronal slice) by a technique described by Stuckhardt and Poppe.<sup>3</sup> If a skeletal anomaly is suspected the pups will be eviscerated, cleared and stained with Alizarin Red S as described by Dawson<sup>4</sup> and examined.

###### 2) Pups - 5 Days of Age to Weaning:

A complete necropsy will be performed and gross lesions will be saved for possible future histopathological examination. Necropsy will include the examination of the external surface, all orifices and the cranial, thoracic, abdominal and pelvic cavities including viscera.

#### U. Spermatogenesis Evaluation:

The following quantitative assessment of the process of spermatogenesis will be performed on all F<sub>0</sub> males (at F<sub>1</sub> weaning) and F<sub>1</sub> males (at study termination).



**1. Motility/Viability Assessment:**

Immediately after euthanasia, the reproductive tract of the male will be exposed via a ventral mid-line incision. The right epididymis will be excised and weighed separately. An incision will be made in the distal region of the right cauda epididymis, and the cauda will be placed in a beaker containing Dulbecco's phosphate buffered saline (maintained at approximately 37°C) with 10 mg/ml Bovine Serum Albumin (BSA). A small sample of the diluted sperm will be loaded into a 100- $\mu$ m chamber for determination of motility. Because sperm motility can be affected by temperature shock, all slides and diluents will be pre-warmed in an incubator, and motility determinations will be performed under constant temperature (approximately 37°C) using the Hamilton-Thorne HTM-IVOS Version 10 computer-assisted sperm analysis (CASA) system. Analysis of at least 200 motile and nonmotile spermatozoa per animal in all exposure groups will be performed by the analyzer. The motility score will be reported.

The right epididymis will then be preserved in accordance with Section VIII.A.

**2. Morphology Assessment:**

Sperm morphology will be evaluated by a modification of the wet-mount evaluation technique described by Linder *et al.*<sup>5</sup> Abnormal forms of sperm from a differential count of 200 spermatozoa per animal in all groups will be recorded.

**3. Enumeration of Epididymal and Testicular Sperm Numbers and Sperm Production Rate (SPR):**

The left testis and epididymis will be weighed, homogenized and evaluated for sperm numbers and the sperm production rate will be calculated utilizing the method described by Blazak *et al.*<sup>6</sup> and the Hamilton-Thorne CASA system. The homogenized sample will be mixed with a DNA-specific fluorescent dye to allow identification of the sperm under fluorescent illumination. The right testis and epididymis will be preserved in Bouin's fixative for subsequent microscopic examination as described in Section VIII.C.



**VIII. Anatomic Pathology:****A. Macroscopic Examination:**

A complete necropsy examination will be conducted on all F<sub>0</sub> and F<sub>1</sub> animals used for breeding dying spontaneously, euthanized *in extremis* or at termination (weaning of offspring). The method of euthanasia for F<sub>0</sub> and F<sub>1</sub> animals used for breeding will be by isoflurane inhalation. Prior to PND 4, the method of euthanasia for F<sub>1</sub> and F<sub>2</sub> neonates (except on PND 4) will be via inhalation of carbon dioxide. PND 4 pups, which are culled, will be euthanized by intraperitoneal injection of sodium pentobarbital. (A gross necropsy will also be performed on all unselected F<sub>1</sub> weanlings on PND 28, as described in protocol section VII.N. and all F<sub>2</sub> weanlings on PND 21.) This will include examination of the external surface, all orifices, the cranial cavity, the external surface of the brain and spinal cord and the thoracic, abdominal and pelvic cavities including viscera. At the time of necropsy the following tissues and organs will be collected and placed in 10% neutral-buffered formalin (except as noted):



**1. F<sub>0</sub> and F<sub>1</sub> Animals Used for Breeding:**

Adrenals (2)	Lymph node (mesenteric)
Aorta	Ovaries with oviducts (2)
Bone with marrow (sternbrae)	Pancreas
Brain (forebrain, midbrain, hindbrain)	Peripheral nerve (sciatic)
Coagulating gland	Pituitary
Eyes with optic nerve (2)	Prostate
Gastrointestinal tract	Salivary glands [submaxillary (2)]
Esophagus	Seminal vesicles (2)
Stomach	Skeletal muscle (vastus medialis)
Duodenum	Skin with mammary gland
Jejunum	Spinal cord (cervical)
Ileum	Spleen
Cecum	Testes with epididymides (1) <sup>a</sup> and vas deferens
Colon	Thymus
Rectum	Thyroids [with parathyroids if present (2)]
Heart	Trachea
Kidneys (2)	Urinary bladder
Liver (sections of two lobes)	Uterus with vagina
Lungs (including bronchi, fixed by inflation with fixative)	All gross lesions

<sup>a</sup> Testis and epididymis (right only) will be fixed in Bouin's solution.



**2. F<sub>1</sub> and F<sub>2</sub> Weanlings:**

All gross lesions will be preserved.

**B. Organ Weights:****1. F<sub>0</sub> and F<sub>1</sub> Animals Used for Breeding:**

The following organs from all parental animals euthanized at scheduled termination will be weighed:

Adrenals	Seminal vesicles with
Brain	coagulating glands (with
Kidneys	accessory fluids)
Liver	Testes*
Ovaries	Spleen
Pituitary	Thymus
Prostate	Epididymis* (total and
	cauda)
	Uterus (with oviducts and cervix)

\* These paired organs will be weighed separately.

**2. F<sub>1</sub> and F<sub>2</sub> Weanlings:**

The following organs from 1 pup/sex/litter from the F<sub>1</sub> and F<sub>2</sub> weanlings euthanized at scheduled termination (PND 28 and 21, respectively) will be weighed.

Brain	Spleen
	Thymus

**C. Microscopic Examination:**

Microscopic examination of hematoxylin-eosin stained paraffin sections will be performed on the following tissues from 10 F<sub>0</sub> and F<sub>1</sub> parental animals/sex/group from the control and high exposure groups and from all parental animals dying spontaneously or euthanized *in extremis*, or that failed to breed, conceive, or deliver offspring. If a target organ is identified in the high exposure group, this organ will be examined from all animals in the intermediate exposure groups (at additional cost).



**1. F<sub>0</sub> and F<sub>1</sub> Animals Used for Breeding:**

Adrenals	Prostate
Brain	Seminal vesicles with
Cervix	coagulating glands (with
Epididymis <sup>a</sup> (right)	accessory fluids)
Kidneys	Spleen
Liver	Testis <sup>a</sup> (right)
Ovaries <sup>b</sup>	Thymus
Pituitary	Uterus (with oviducts)

<sup>a</sup> Transverse sections of 2-4 microns will be made for the testis and longitudinal sections for the epididymis. PAS and hematoxylin staining will be used for the right testis and epididymis. The following regions of the epididymis will be embedded: caput, corpus and cauda.

<sup>b</sup> Bilateral evaluation of one section of each ovary will be performed for F<sub>0</sub> females. If qualitative differences are observed or adverse reproductive effects are noted bilateral evaluation of multiple sections of each ovary will be performed (after approval of the Sponsor, additional cost). A quantitative histopathologic evaluation of five sections (at least 100 µm apart) from the inner third of each ovary will be conducted on all F<sub>1</sub> females from the control and high dose groups. This examination will include enumeration of the total number of primordial follicles and corpora lutea according to the methods of Bolon *et al*<sup>7</sup> and Bucci *et al*.<sup>8</sup>

**IX. Duration of Study:**

The two generations to be studied (parental animals and first generation offspring) will be termed F<sub>0</sub> and F<sub>1</sub>, respectively. The conduct of this study will require approximately nine months for acclimation, mating, gestation and lactation of the F<sub>0</sub> generation, growth, mating, gestation and lactation of the F<sub>1</sub> generation and growth of the F<sub>2</sub> generation until euthanasia.

**X. Statistical Methods:**

All analyses will be two-tailed for a minimum significance level of 5%. All means will be presented with standard deviations. All statistical tests will be performed by a computer with appropriate programming as referenced below. The litter, rather than the neonate, will be considered as the experimental unit.



**A. Parental In-Life Data:**

Continuous data variables [mean  $F_0$  and  $F_1$  parental body weights (premating, gestation and lactation), body weight gains and food consumption at each interval], estrous cyclicity, follicular counts (ovary), gestation length and mean day of acquisition of vaginal patency and balanopreputial separation will be analyzed by a parametric one-way analysis of variance (ANOVA)<sup>9</sup> to determine intergroup difference. If the results of the ANOVA are significant ( $p < 0.05$ ), Dunnett's test<sup>10</sup> will be applied to the data to obtain the following comparisons: Vehicle control group versus all treatment groups.

Male and fertility indices of the control group will be compared to each treated group by the Chi-square test with Yates' correction factor.<sup>11</sup>

**B. Litter Data:**

The mean litter proportions (% per litter) of pup viability during the postnatal period will be analyzed by the Kruskal-Wallis nonparametric ANOVA test<sup>12</sup> to determine intergroup difference. If the results of the ANOVA are significant ( $p < 0.05$ ), the Mann-Whitney U-Test<sup>12</sup> will be applied to the data to obtain the following comparisons: vehicle control versus all treatment groups. Mean pup weights will be analyzed by the parametric ANOVA test<sup>9</sup> and Dunnett's test<sup>10</sup> as described above.

**C. Histopathologic and Organ Weight Data:**

Histopathologic findings of the control group will be compared to each treated group by Fisher's Exact Test.<sup>13</sup> Organ weights (absolute and relative to body weights) will be analyzed by a parametric ANOVA test<sup>9</sup> and Dunnett's test<sup>10</sup> as described above.

**D. Spermatogenic Endpoint Evaluations:**

The percentage of motile spermatozoa and percentage of sperm with normal morphology will be analyzed by the Kruskal-Wallis<sup>12</sup> nonparametric ANOVA test<sup>12</sup> followed by the Mann-Whitney U-Test<sup>12</sup> as described above. Epididymal and testicular sperm numbers and sperm production rates will be analyzed by a parametric ANOVA test<sup>9</sup> and Dunnett's test<sup>10</sup> as described above.

**XI. Quality Assurance:**

The study will be audited by the WIL Quality Assurance Unit while in progress to assure compliance with the study protocol and protocol amendments, WIL Standard Operating Procedures and the appropriate provisions of EPA/TSCA and FIFRA



Good Laboratory Practice Standards published in the Federal Register (40 CFR Part 792 and 40 CFR Part 160). The raw data and draft report will be audited by the WIL Quality Assurance Unit prior to submission to the Sponsor Representative to assure that the final report accurately describes the conduct and the findings of the study. This study will be included on the WIL master list of regulated studies.

#### **XII. Records to be Maintained:**

All original raw data records, as defined by WIL SOPs and the applicable GLPs, will be stored as described in Section XIII. in the Archives at WIL Research Laboratories, Inc.

#### **XIII. Work Product:**

Sponsor will have title to all documentation records, raw data, slides, specimens and other work product generated during the performance of the study. All work product including raw paper data, magnetically encoded records and specimens will be retained for a period of ten years following issuance of the final report in the Archives at WIL Research Laboratories, Inc. All work product will be stored in compliance with regulatory requirements.

Any work product, including documents, specimens, and samples, that are required by this protocol, its amendments, or other written instructions of the Sponsor, to be shipped by WIL Research laboratories, Inc. to another location will be appropriately packaged and labeled as defined by WIL's SOPs and delivered to a common carrier for shipment. WIL Research Laboratories, Inc. will not be responsible for shipment following delivery to the common carrier.

#### **XIV. Reports:**

The final report will contain a summary, test article data, methods and procedures, maternal and pup data and an interpretation and discussion of the study results. The final report will be comprehensive and shall define level(s) inducing toxic effects as well as "no-effect" level(s) under the conditions of this investigation. The report will contain all information necessary to conform with current EPA OPPTS and OECD specifications.

WIL Research Laboratories will provide one copy of an Audited Draft Report, submitted in a timely manner upon completion of the study prior to issuance of the final report. One revision will be permitted as part of the cost of the study, from which the Sponsor's reasonable revisions and suggestions will be incorporated into the Final Report, as appropriate. Additional changes or revisions may be made, at extra cost. It is expected that the Sponsor will review the draft report and provide comments to WIL within a two-month time frame following submission. WIL will



submit the Final Report within one month following receipt of comments. Two copies of the Final Report (1 bound, 1 unbound) will be provided; requests for additional copies of the Final Report may result in additional charges.

**XV. Animal Welfare Act Compliance:**

This study will comply with all applicable sections of the Final Rules of the Animal Welfare Act regulations (9 CFR Parts 1, 2 and 3). The Sponsor should make particular note of the following:

- The Sponsor signature on this protocol documents for the Study Director the Sponsor's assurance that the study described in this protocol does not unnecessarily duplicate previous experiments.
- Whenever possible, procedures used in this study have been designed to avoid or minimize discomfort, distress or pain to animals. All methods are described in this study protocol or in written laboratory SOPs.
- Animals that experience severe or chronic pain or distress that cannot be relieved will be painlessly euthanized as deemed appropriate by the veterinary staff and Study Director. The Sponsor will be advised by the Study Director of all circumstances which could lead to this action in as timely a manner as possible.
- Methods of euthanasia used during this study are in conformance with the above-referenced regulation. The method of euthanasia for F<sub>0</sub> and F<sub>1</sub> parental animals will be by isoflurane inhalation. The method of euthanasia for F<sub>1</sub> and F<sub>2</sub> neonates (except on PND 4) will be via inhalation of carbon dioxide. PND 4 pups, which are culled, will be euthanized by intraperitoneal injection of sodium pentobarbital.

**XVI. Protocol Modification:**

Modification of the protocol may be accomplished during the course of this investigation. However, no changes will be made in the study design without the verbal or written permission of the Sponsor. In the event that the Sponsor verbally requests or approves a change in the protocol, such changes will be made by appropriate documentation in the form of a protocol amendment. All alterations of the protocol and reasons for the modification(s) will be signed by the Study Director and the Sponsor Representative.



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**XVIII. Protocol Approval:**

Sponsor approval received via Phone on 8/27/2001  
date

**Oxo Process Panel of the American Chemistry Council**

Barbara Francis  
Barbara Francis  
Sponsor Representative

8/29/2001  
Date

**WIL Research Laboratories, Inc.**

Mark D. Nemecek  
Mark D. Nemecek, B.S., D.A.B.T.  
Study Director

8/27/2001  
Date



**APPENDIX A**

An Inhalation Two-Generation Reproductive Toxicity Study of Isobutanol in Rats

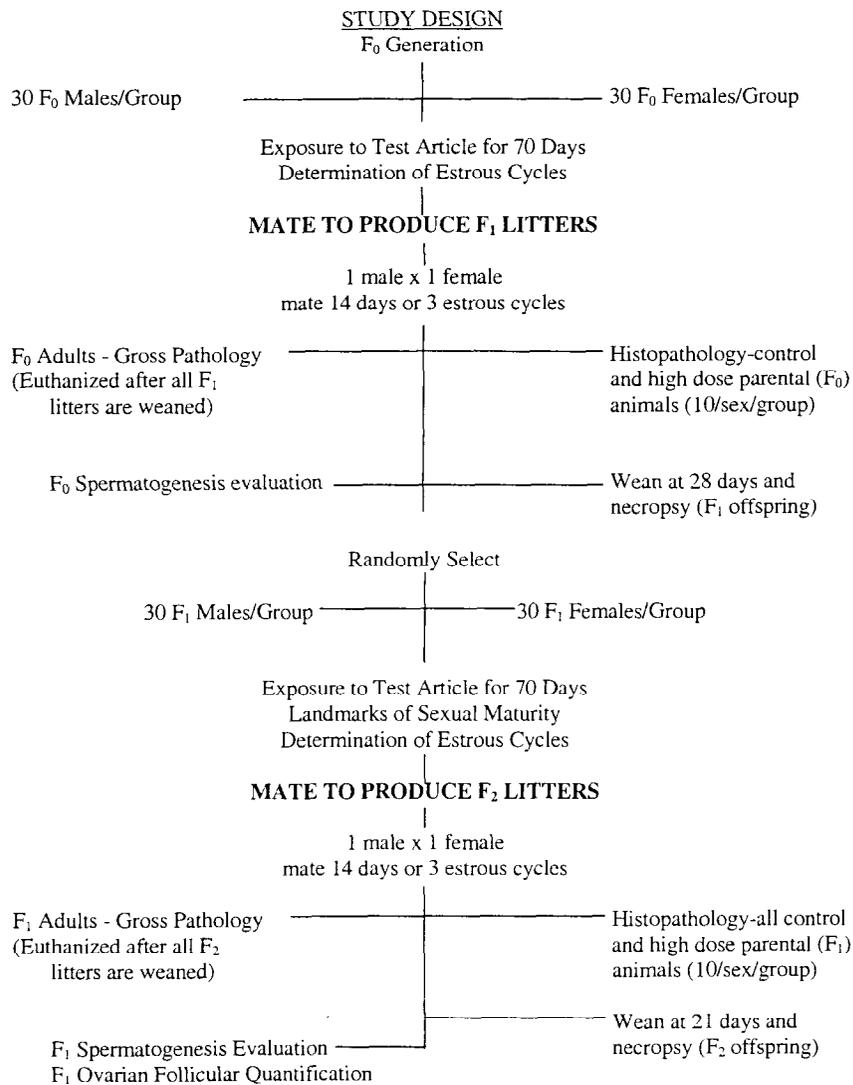


Figure 1: Schematic Diagram of Generation and Exposure System

