

STUDY NO. 00-4202
SPONSOR STUDY NO. 211-TAME-1G
GASOLINE TAME VAPOR CONDENSATE
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION
TOXICITY STUDY IN RATS

Final Report

Submitted to: American Petroleum Institute
1220 L Street, Northwest
Washington, D.C. 20005-4070


Attn: Thomas M. Gray, M.S., D.A.B.T.

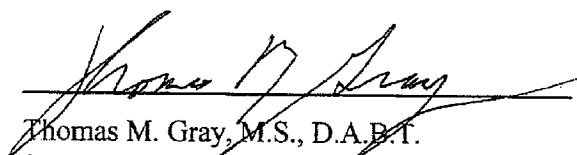
Date: 22 January 2009
Date Amended: 19 March 2009

STATEMENT OF COMPLIANCE

This study was conducted in compliance with the United States Environmental Protection Agency's Good Laboratory Practice Standards 79.60, CFR Vol. 59, No. 122, 27 June 1994 with the following exception:

It was the Sponsor's responsibility to maintain the method of synthesis, fabrication, or derivation of the test fuel, and this was not completed at the time of the study conduct but has been completed since and is on file with the Sponsor.




Gary M. Hoffman, B.A., D.A.B.T.
Study Director22 June 09
Date

Thomas M. Gray, M.S., D.A.B.T.
Sponsor Representative1/21/09
Date

SIGNATURE PAGE**SCIENTISTS**

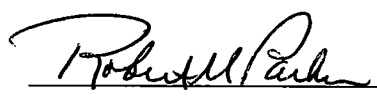
The following Scientists were responsible for the overall conduct of this study. Departmental supervisory personnel are listed on the personnel page of this report (Appendix EE).

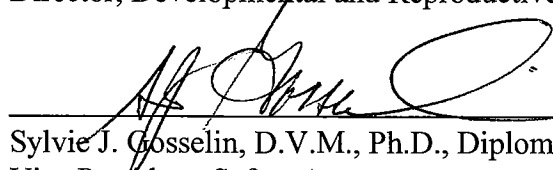


Gary M. Hoffman, B.A., D.A.B.T.
Study Director22 Jan 09
Date

Dianne Creasy, Ph.D., DipRCPath (Tox), FRCPath.
Senior Director of Pathology¹22nd Jan 09.
Date**SCIENTIFIC REVIEW**

The following Scientists have reviewed and approved this report.



Robert M. Parker, Ph.D., D.A.B.T.
Director, Developmental and Reproductive Toxicology22 JAN 09
Date

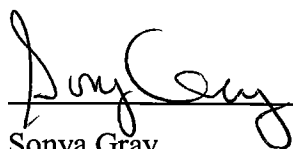
Sylvie J. Gosselin, D.V.M., Ph.D., Diplomate A.C.V.P.
Vice President, Safety Assessment22 Jan 09
Date

¹Katharine M. Whitney was the Study Pathologist for this study and for submission of the draft report and is no longer employed at the Testing Facility. Dianne Creasy is assuming responsibility for finalization of the pathology evaluation of this report.

QUALITY ASSURANCE STATEMENT^a

Listed below are the dates that this study was inspected by the Quality Assurance Unit of Huntingdon Life Sciences, East Millstone, New Jersey, and the dates that findings were reported to the Study Director and Management.

Type of Inspection	Date(s) of Inspection	Reported to Study Director and Management
Pathology Associates Facility Inspection	24 Apr 01	2 Nov 01
GLP Protocol Review	9 Mar 01	14 Mar 01
Exposure, Monitoring & Equipment Record	23 Aug 01	24 Aug 01
Body Weight & Feeder Weight Data Collection & Training Records	12 Sep 01	12 Sep 01
Estrous Cycle Evaluations	10 Oct 01	10 Oct 01
Litter Check Evaluations	28 – 29 Nov 01	29 Nov 01
P ₀ Male Necropsy & Sperm Assessments	10 Dec 01	10 Dec 01
Maternal Sacrifice & Pup Necropsy	19 Dec 01	19 Dec 01
Exposure, Monitoring & Sampling	20 Dec 01	20 Dec 01
Final Analytical Report & Study Data	22 – 24 Apr 02	24 Apr 02
Final Report & Study Data	23 Apr – 13 May 02	13 May 02
Sponsor Comments & Additional Report Comments	20 – 23 Jul 04	23 Jul 04
Final Report Review & Protocol Amendment Nos. 1 - 3	16 & 22 Jan 09	22 Jan 09
Final Report Amendment No. 1	26 Feb 09	26 Feb 09



Sonya Gray
Senior Quality Assurance Auditor



Date

^aStatement originally signed on 22 January 2009; re-signed due to performance of an additional audit.

**Gasoline TAME Vapor Condensate:
A One Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats**

SUMMARY

This study was designed to assess the potential reproductive toxicity of Gasoline TAME Vapor Condensate when administered via whole-body inhalation exposures to Sprague Dawley rats (26/sex/group). The test substance was administered (using a nitrogen enriched air mixture) at target concentrations of 2000, 10000 and 20000 mg/m³ for 6 hours/day, 7 days/week for 10 weeks before mating, for 2 weeks during mating, for 3 weeks during gestation and for 4 weeks during lactation prior to weaning. In addition, a control group (26/sex) received nitrogen enriched air only while in chamber. Exposure levels were determined using an infra-red spectrophotometer 4 times per chamber per day. Additionally, the test substance's major components were assayed once per chamber per week. Particle size distribution measurements were also made once per chamber per week using a TSI Aerodynamic Particle Sizer.

Viability checks were performed twice daily to check for mortality and signs of severe toxic or pharmacologic effects. Physical observations and body weight measurements were made at least twice pretest and at least weekly during the study. Feed consumption measurements were obtained beginning the week prior to treatment initiation and at least weekly during the study. After completion of ~ 16 weeks of exposures, all parental male animals (P₀ generation) were sacrificed. All parental female animals (P₀ generation) were sacrificed on Lactation Day 28. For all parental animals, selected organs were weighed and organ/body weight and organ/brain weight ratios calculated. Complete macroscopic postmortem examinations were performed on all parental animals. Histopathological evaluations of selected tissues were conducted on selected parental animals.

Pups (F₁ generation) were observed as soon as possible after delivery for their sex, the number of live and dead pups and pup abnormalities. Thereafter, litters were observed twice daily. On the 4th day after parturition, litters with more than ten pups were randomly culled to ten pups with sex distribution equalized when possible. Pups were given a gross physical examination, were weighed and were sexed frequently until weaning on the 28th day after parturition at which time they were sacrificed. A macroscopic postmortem evaluation and the weighing of selected organs were performed on selected pups.

The overall mean (\pm standard deviation) analytical exposure concentrations of Gasoline TAME Vapor Condensate were determined to be 0 ± 0 , 2060 ± 240 , 10500 ± 516 and 20500 ± 1184 mg/m³ for the Air Control and the exposure groups, respectively. The analytically measured exposure levels of the airborne test substance were acceptably close to the targeted exposure levels. The measured and nominal concentrations varied

SUMMARY

somewhat (less than 8%), but reasonably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 24°C and 44% relative humidity. Particle sizing results indicated that the atmospheres were essentially vapor only, as expected, since there was no substantial difference between the particulate levels in the test substance chambers and the Air Control chamber. Analysis of the major components in the neat test substance and the test atmospheres showed an acceptably close comparison between the neat test substance and the vaporized test substance. This data demonstrated that the test animals were exposed, as expected, to all of the major components of the test substance in their reasonably proper proportion. The data was consistent from week-to-week during the study indicating stability of the test substance and the atmosphere generation techniques.

There was no effect of treatment on survival, clinical observations, body weights or weight changes, estrous cycle (as measured by cycle length and number of estrous cycles), mating indices for the male rats and mating, fertility and gestation indices for the female rats. There were also no treatment-related differences in the other reproductive parameters up to the time of parturition including the percent of females completing delivery and the duration of gestation, when compared to the Air Control group. Exposure-related decreases in feed consumption were seen during the lactation period (especially during the mid-lactation period) in the test animals at all exposure levels compared to the Air Control animals and seemed to correlate with the decreases in pup body weight gains noted at the same time. There were also no treatment-related differences in all parturition parameters including the total number of pups delivered, the number of pups dying, the viability (4 day survival) and lactation (21 day survival) indices, the number of implantation sites per litter, the pup sex ratio and the number of live pups/litter, when compared to the Air Control group. Mean percent motility, epididymal sperm count, homogenization-resistant testicular sperm count and sperm morphology were not affected by treatment with the test substance at an exposure level of 20000 mg/m³.

There were no exposure-related differences in macroscopic postmortem evaluations in the test substance exposed animals compared to the Air Control animals. Exposure-related effects on organ weights included statistically significant increases in kidney weights (absolute and/or relative to body and brain weight) at all exposure levels in the males and at the highest exposure level in the females. These differences for the males (but not the females) were consistent with the microscopic findings (only the high exposure level animals were examined) discussed in the following section. Exposure-related effects on organ weights also included statistically significant increases in liver weights (absolute and/or relative to body and brain weight) at the 10000 and 20000 mg/m³ exposure levels in the males. These differences for the males were not consistent with any corresponding histopathology findings but may represent a metabolic

SUMMARY

response. Microscopic findings that were considered exposure-related were found only in the kidneys of male animals exposed to 20000 mg/m³ of Gasoline TAME Vapor Condensate and are consistent with hyaline droplet nephropathy, attributable to accumulation of alpha-2 microglobulin within renal tubular epithelial cells. This species- and gender-specific change has been well documented in male rats exposed to a variety of hydrocarbon compounds and is not considered relevant to humans. No test substance related microscopic changes were noted in male and female reproductive organs or other protocol-specified tissues in this study.

The pups were unremarkable during the lactation period. There were exposure-related decreases in body weight gains in the pups feeding from test substance exposed animals compared to the pups feeding from Air Control animals. These statistically significant differences in body weights and weight changes were noted at several intervals (especially during the mid-lactation period) for all of the exposed groups. There were no exposure-related differences in macroscopic postmortem evaluations and organ weights in the pups feeding from test substance exposed animals compared to the pups feeding from Air Control animals.

In conclusion, exposure of rats to 2000, 10000 and 20000 mg/m³ of vapor of Gasoline TAME Vapor Condensate resulted in decreased feed consumption in the dams during lactation at all exposure levels. There were also increases in liver weights in the parental male animals in the 10000 and/or 20000 mg/m³ exposed groups. Increases in relative kidney weights were observed in parental male animals in all exposure groups and in the parental female animals in the 20000 mg/m³ exposed group. Therefore, with respect to general toxicity, a no observable adverse effect level (NOAEL) was not clearly determined. Microscopic findings in high exposure male kidneys (only control and high exposure groups were examined microscopically) were consistent with hydrocarbon nephropathy. However, this finding has been generally accepted (US EPA 1991. Alpha 2 microglobulin: association with chemically induced renal toxicity and neoplasia in male rat. In Risk Assessment Forum, p.85. US Govt. Printing Office, Washington, DC.) not to be relevant to human risk assessment. There was no effect on reproductive performance in the study, including mating, fertility, parturition, lactation and offspring survival except decreases in pup body weight gains were seen at all exposure levels. Therefore, with respect to reproductive performance, a no observable adverse effect level (NOAEL) of Gasoline TAME Vapor Condensate was also not clearly determined. A low observable adverse effect level (LOAEL) of 2000 mg/m³ of Gasoline TAME Vapor Condensate was determined with respect to general toxicity and reproductive performance.

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1. INTRODUCTION

This reproductive study was designed (see 2.18.1 for test guidelines) to provide general information concerning the effects of Gasoline-TAME Vapor Condensate on the integrity and performance of the male and female reproductive systems, including gonadal function, the estrous cycle, mating behavior, conception, gestation, parturition and lactation, and to provide information about the effects of the test substance on neonatal morbidity and mortality, and data on prenatal and postnatal developmental toxicity.

2. MATERIALS AND METHODS

2.1. STUDY MANAGEMENT

2.1.1. SPONSOR

American Petroleum Institute (API)
1220 L Street, Northwest
Washington, DC 20005-4070

2.1.2. SPONSOR REPRESENTATIVE

Thomas M. Gray, M.S., D.A.B.T.

2.1.3. TESTING FACILITY

Huntingdon Life Sciences
P.O. Box 2360
Mettlers Road
East Millstone, New Jersey 08875-2360

2.1.4. STUDY DIRECTOR

Gary M. Hoffman, B.A., D.A.B.T.

2.2. STUDY DATES

2.2.1. STUDY INITIATION

8 August 2001 (Date Study Director signed the Protocol)

2.2.2. DATE OF ANIMAL RECEIPT

1 August 2001

2.2.3. EXPOSURE INITIATION

22 August 2001 (Experimental Start Date)

2.2.4. MATING INITIATION

30 October 2001

2.2.5. EXPOSURE TERMINATION

26 December 2001

2.2.6. TERMINAL SACRIFICE

P₀ Males: 10-11 December 2001

P₀ Females: 25 November 2001 – 27 December 2001

F₁ Pups: 19-27 December 2001

2.2.7. EXPERIMENTAL TERMINATION DATE

22 January 2009 (Date of last data collection = Date the Pathologist signed the Final Report)

2.2.8. STUDY COMPLETION

22 January 2009 (Date Study Director signed the Final Report)

2.3. EXPERIMENTAL OUTLINE

			Number of Animals				
			Mated Adults		Microscopic Pathology Adult Generations ^b		Macroscopic Postmortem Examinations-Pups
			P ₀		P ₀		
Group	Group Designation	Exposure Levels (mg/m ³) ^a	M	F	M	F	F ₁
I	Control	0 (air only)	26	26	10	10	3/sex/litter
II	Low	2000	26	26	0	0	3/sex/litter
III	Middle	10000	26	26	0	0	3/sex/litter
IV	High	20000	26	26	10	10	3/sex/litter

^a Exposures daily (7 days/week) for 6 hours per day.

^b Histologic examinations were performed on reproductive tissues for the control and high-exposure animals.

M = Male; F = Female; The first day of exposure was Day 0.

2.4. TEST SUBSTANCE

Gasoline TAME Vapor Condensate

2.4.1. SUPPLIER

Chevron Texaco Energy Research and Technology Company
100 Chevron Way
Richmond, CA 94802

2.4.2. LOT NUMBER

API 01-04

2.4.3. PURITY/ANALYTICAL CONCENTRATION

100% Gasoline TAME Vapor Condensate

2.4.4. DESCRIPTION

Colorless Liquid

2.4.5. DATES RECEIVED

14 June 2001
30 July 2001

2.4.6. EXPIRATION DATE

Not available; stable per MSDS and Appendix B.

2.4.7. ANALYSIS

Documentation of the identity, strength, purity, composition, stability, and method of synthesis, fabrication, and/or derivation of the test article and the maintenance of these records was the responsibility of the Sponsor. The Sponsor conducted a purity analysis of the test substance by GC prior to the start of this study.

2.4.8. STORAGE

The test substance was received in airtight containers that were stored under ambient conditions in an outdoor solvent shed

(uncontrolled environment) or in an indoor laboratory (controlled environment).

2.4.9. DISPENSING

The test substance was received in 100-gallon cylinders. Since only 5-gallon cylinders were practical to be used for exposure operations, the test substance was dispensed, as needed, at the Testing Facility from the 100-gallon cylinders into 5-gallon cylinders using nitrogen pressurization.

2.4.10. ARCHIVAL SAMPLE

An archival sample from test substance was taken and stored in the Archives of the Testing Facility under conditions specified for test substance storage.

2.4.11. DISPOSITION

The unused portion of the test substance, as well as any empty test substance containers were returned to the supplier following the completion of the study. Empty test substance containers were returned on an as needed basis. The Sponsor is responsible for tracking their disposition.

2.5. TEST ANIMALS

Albino Rats (Outbred) VAF/Plus®

2.5.1. SPECIES

Sprague-Dawley derived CD®
[CrI: CD® IGS BR]

2.5.2. SUPPLIER

Charles River Laboratories
Kingston, New York 12484

2.5.3. JUSTIFICATION FOR TEST ANIMAL SELECTION

The rat was used as a surrogate to humans in the detection of reproductive effects and is a species in which known reproductive

toxicants have been detected. The rat is a rodent animal model commonly utilized in reproduction studies and is recommended in the referenced guidelines (see 2.18.1). In addition, a historical control database with this strain of animal and supplier facility is available for comparative evaluation.

2.5.4. NUMBER OF ANIMALS

Received:

220 total (110 males, 110 females)

Placed on test:

208 total (104 males, 104 females)

Females were nulliparous and non-pregnant. Male and female rats originated from the same room at Charles River Laboratories and there was a possibility of brother-sister matings in the P₀ mating.

2.5.5. AGE AT RECEIPT

Approximately 29 days.

2.5.6. AGE AT INITIATION OF EXPOSURES

Approximately 50 days.

2.5.7. WEIGHT AT INITIATION OF EXPOSURES (GRAMS)

	Mean	Range
Male:	274	236-323
Female:	185	154-216

Individual weights of animals placed on test were within $\pm 20\%$ of the mean weight for each sex.

2.5.8. ACCLIMATION PERIOD

Animals were acclimated for 21 days. All animals were examined during the acclimation period to confirm suitability for study and checked twice daily for viability.

2.6. ANIMAL ASSIGNMENT

More animals than required for the study were purchased and acclimated. Animals considered suitable for the study on the basis of pretest body weight data and physical examination, were randomly assigned, by sex, to control or treated group, in an attempt to equalize mean group body weights. Disposition of all animals not utilized in the study is maintained in the study file.

2.7. ANIMAL IDENTIFICATION

Each rat was assigned a temporary identification number upon receipt. After selection for study (P₀ generation), each rat was identified with a metal ear tag bearing its assigned animal number. The assigned animal number plus the study number comprised the unique animal number for each animal. If the tag was lost, it was replaced. In addition, each cage was provided with a cage card that was color-coded for exposure level identification and contained the study number and animal number information.

2.8. VETERINARY CARE

Animals were monitored by the technical staff for any conditions requiring possible veterinary care and treated as necessary. Miscellaneous, non-test substance-related veterinarian evaluations and treatments (as necessary) for individual animals were reviewed by the Study Director and are documented in the study file.

2.9. ANIMAL HUSBANDRY DURING NON-EXPOSURE PERIODS**2.9.1. FACILITIES MANAGEMENT/ANIMAL HUSBANDRY**

Currently acceptable practices of good animal husbandry were followed e.g., *Guide for the Care and Use of Laboratory Animals*; National Academy Press, 1996. Huntingdon Life Sciences, East Millstone, New Jersey is fully accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC).

2.9.2. HOUSING

Animals were housed in suspended, stainless steel cages with wire mesh fronts and floors. Animals were doubly housed during the initial week of acclimation and individually housed thereafter, except as follows.

Mating: One male and one female were co-housed continuously (except during treatment) for 14 days, or until mating occurred.

Lactation: Dam and litter were housed together in a solid plastic “shoebox” cage until weaning.

2.9.3. FEED

Certified Rodent Diet, No. 5002; (Meal) (PMI Nutrition International, St. Louis, Missouri) was available without restriction except during exposures.

2.9.4. FEED ANALYSIS

Analysis of each feed lot used during this study was performed by the manufacturer. Results can be found in Appendix CC. There were no known contaminants in the feed, which were expected to interfere with the results of this study.

2.9.5. WATER

Water (Elizabethtown Water Company, Westfield, New Jersey) was available without restriction, except during exposures, via an automated watering system.

2.9.6. WATER ANALYSIS

Water analyses are conducted by Elizabethtown Water Company, Westfield, New Jersey (Raritan-Millstone Plant) to ensure that water meets standards specified under the EPA Federal Safe Drinking Water Act Regulations (40 CFR Part 141). In addition, water samples are collected biannually from representative rooms in the Testing Facility; chemical and microbiological water analyses are conducted on these samples by a subcontract laboratory. Results of all water analyses can be found in

Appendix CC. There were no known contaminants in the water that were expected to interfere with the results of this study.

2.9.7. BEDDING SUBSTANCE

Ground corncob bedding (Bed-O'-Cobs® ¼ inch irradiated, The Andersons, Maumee, OH) was provided for each mated female on Day 18 of gestation. Fresh bedding was provided at least weekly and as needed during the lactation period (litters were weaned on Day 28 of lactation).

2.9.8. BEDDING ANALYSIS

Analyses for a representative batch of bedding used on study can be found in Appendix CC. There were no known contaminants in the bedding that were expected to interfere with the results of this study.

2.9.9. ENVIRONMENTAL CONDITIONS

Light/Dark Cycle

A twelve-hour light/dark cycle controlled by an automatic timer was provided.

Temperature

Temperature was monitored in accordance with Testing Facility SOPs and maintained within the specified range to the maximum extent possible. Excursions outside the specified range were considered not to have affected the integrity of the study.

Desired:	19 to 25 °C
Actual:	16.6 to 27.0 °C
Daily Average Range:	18.3 to 22.4 °C

Relative Humidity

Relative humidity was monitored in accordance with Testing Facility SOPs and maintained within the specified range to the maximum extent possible. Excursions outside the specified range were considered not to have affected the integrity of the study.

Desired:	30 to 70%
Actual:	23.82 to 99.81%
Daily Average Range:	36.75 to 76.11%

Air Changes

Air changes were monitored in accordance with Testing Facility SOPs and maintained within the specified range to the maximum extent possible.

Desired:	10 - 15 per hour
Actual:	12.6 – 14.6 per hour

2.10. TEST SUBSTANCE ADMINISTRATION AND CHAMBER OPERATION

Inhalation (whole-body exposures).

Details of test article administration and chamber operation information are presented in the Inhalation Report (Appendix A).

2.11. EXPERIMENTAL EVALUATIONS

2.11.1. VIABILITY EXAMINATION (CAGESIDE)

Observations for mortality and signs of severe toxic or pharmacological effects were made at least twice daily (morning and afternoon).

2.11.2. DETAILED PHYSICAL EXAMINATIONS

The animals were observed as a group at least once during each exposure.

In addition, each parental animal was removed from its cage and examined twice pretest (Days -7 and 0), and weekly thereafter during the study period. Once mated, females were observed on Gestation Days 0, 7, 14 and 20 and on Lactation Days 1, 4, 7, 14, 21 and 28. Females that showed evidence of mating but did not deliver were observed on Gestation Days 0, 7, 14 and 20 and were euthanized on Gestation Day 25. Females without evidence of mating were continuously observed weekly until euthanized on the

last possible Gestation Day 25. Examinations included, but were not limited to, observations of general condition, skin and fur, eyes, nose, oral cavity, abdomen and external genitalia, as well as, evaluations of respiration and palpation for tissue masses. During the exposure period, physical examinations were performed post-exposure.

2.11.3. BODY WEIGHT

Each parental animal was removed from its cage and weighed three times pretest (Days -14, -7 and 0), and weekly thereafter during the study period (including the mating period). Once mated, females were weighed on Gestation Days 0, 4, 7, 14 and 20 and on Lactation Days 1, 4, 7, 14, 21 and 28. Females that did not show evidence of mating and/or did not deliver pups were weighed weekly until euthanasia.

2.11.4. FEED CONSUMPTION

Feed consumption was measured once pretest and weekly thereafter during the study period. Once mated, female feed consumption was measured on Gestation Days 0, 4, 7, 14 and 20 and on Lactation Days 1, 4, 7, 14, 21 and 28 until euthanasia. Females without evidence of mating and/or that did not deliver pups had food consumption measured weekly until euthanasia. Feed consumption was not measured for any animal during the mating period when males and females were co-housed.

Calculation

Feed Consumption (g/kg/day) =

$$\frac{\text{grams of food consumed}}{\text{body weight (kg)}^a} \div \# \text{ days}$$

^aThe average of the current and previous weight was used.

2.12. MATING, GESTATION, AND LACTATION PROCEDURES

2.12.1. ESTROUS CYCLING

Daily vaginal smears were taken at approximately the same time each day, and the stage of estrous was determined for each P₀ female beginning three weeks prior to cohabitation and continued until there was evidence of mating or until the 14-day mating period ended.

2.12.2. MATING PROCEDURE

Following a 10-week pre-mating treatment period, one male and one female from the same exposure group were caged together until evidence of mating was observed (a copulation plug in the vagina and/or microscopic observation of sperm in the vaginal smear) or 14 consecutive days had elapsed. During cohabitation period exposures, males and females were not paired together. The day evidence of mating was observed was defined as Day 0 of gestation.

2.12.3. PARTURITION AND LACTATION

On Day 18 of gestation, several days prior to expected parturition, each female was transferred to a solid plastic “shoe-box” cage. Bedding substance was provided and changed at least weekly as needed. Examinations for signs of parturition were made twice daily (morning and afternoon). The day on which parturition was first observed was defined as Day 0 of lactation. Females that exhibited no evidence of mating were transferred to plastic “shoe-box” cages when the first animals mated reached their Day 18 of gestation.

2.12.4. LITTER EVALUATIONS (F₁)

Observations

F₁ litters were observed as soon as possible after delivery for the number of live and dead pups, sex of the pups and pup abnormalities. The sex was determined on the day of delivery completion for all pups by inspection of the anogenital distance. All pups were uniquely identified within the litter by toe tattoo on

the day of delivery completion. Thereafter, litters were observed twice daily (morning and afternoon) for the presence of dead pups. These dead pups were examined to the extent possible for defects and/or cause of death and preserved in neutral, phosphate-buffered 10% formalin. Litter size was recorded daily from Lactation Day 1 until weaning on Lactation Day 28.

Culling Pups

On Day 4 of lactation, each litter with more than 10 pups was culled to that number, with sex distribution equalized (five/sex) when possible. The pups were culled randomly, preferential culling of runts not being performed.

Physical Examinations

Each F₁ pup was given a macroscopic physical examination on the day of delivery completion and on Day 4, 7, 14, 21 and 28 of lactation.

Body Weight

Individual F₁ pup weights were recorded on Day 1, 4 (precull intervals), 7, 14, 21 and 28 of lactation (postcull intervals).

Sexing

The sex of each individual pup was recorded on the day of delivery completion, then reconfirmed on Lactation Day 4, 7, 14, 21, and at weaning on Lactation Day 28.

2.13. POSTMORTEM PARENTAL ANIMALS (P₀)

Necropsy Information

Necropsy was performed on up to 26 animals/sex/group. All P₀ males were euthanized proximate to the first day F₁ litters were weaned. All P₀ females with litters were euthanized on Day 28 of lactation. P₀ females with no confirmed day of mating were euthanized on last possible Gestation Day 25. P₀ females with confirmed days of mating that did not deliver were euthanized on Gestation Day 25.

If a dam entirely lost her litter, she resumed exposures the next day (if prior to lactation day 5) or otherwise continued exposures. She was sacrificed on the initial day of weaning for the study (or later, as practical) and macroscopically examined and tissues retained but no organs were weighed.

Method of Euthanasia

Exsanguination following anesthesia with inhaled carbon dioxide.

Macroscopic Examination

Complete macroscopic postmortem examinations were performed on all adult animals, including animals found dead or killed accidentally and all abnormal observations were recorded. The necropsy of the parental animals included examination of the external surface and all orifices; the external surfaces of the brain and spinal cord; the organs and tissues of the cranial, thoracic, abdominal and pelvic cavities and neck; and the remainder of the carcass. Examination of all P₀ females included a vaginal smear to determine the stage of the estrous cycle and a count of uterine implantation scars, if present. The uteri of any apparently non-pregnant females were stained with ammonium sulfide (Salewski, 1964), to confirm non-pregnant status.

Organ Weights

Organs indicated in Table I (page 25) were weighed for all animals at the scheduled sacrifice intervals. Prior to weighing, the organs were carefully dissected and properly trimmed to remove adipose and other contiguous tissues in a uniform manner. Organs were weighed as soon as possible after dissection in order to avoid drying. Paired organs were weighed together (gonads were weighed separately). Organ weight data is presented as absolute values and relative to terminal body weight and brain weight. Organ weights were not recorded for an animal dying spontaneously or euthanized moribund.

Tissues Preserved and Examined Histopathologically

The tissues listed in Table I (page 25) were obtained at the scheduled sacrifice intervals and preserved for all animals. Slides of the indicated tissues were prepared and examined microscopically for 10 randomly

selected animals in the P₀ control and high exposure groups. Any abnormalities not noted during macroscopic examinations which were seen during histology processing were recorded.

Histopathological examinations of the testes were conducted to identify potential treatment-related effects such as retained spermatids, missing germ cell layers or types, multinucleated giant cells, or sloughing of spermatogenic cells into the lumen. The examination of the intact epididymis was of a longitudinal section that permitted examination of the caput, corpus and cauda regions, that could have identified such lesions as sperm granulomas, leukocytic infiltration (inflammation), aberrant cell types within the lumen, or the absence of clear cells in the cauda epididymal epithelium.

Histopathological examination of the ovary included evaluation of five sections taken at least 100 µm apart from the inner third of each ovary. These examinations could have detected depletion of the primordial follicle population and enumerated the total number of primordial follicles for comparison with the ovaries from control animals. These examinations could have also confirmed the presence or absence of growing follicles and corpora lutea in comparison to control ovaries. Qualitative evaluations of the P₀ animals were performed by HLS.

TABLE I

ORGAN NAME	WEIGHED	PRESERVED	EXAMINED MICROSCOPICALLY (Groups I and IV)
adrenal glands	X	X	X
brain (medulla, pons, cerebrum and cerebellum)	X	X	X
Epididymides (total and caudal)	X	X ^a	X ^a
kidneys	X	X	X
liver	X	X	X
lungs (with mainstem bronchi)	X	X	X
ovaries	X	X	X
pituitary gland	X	X	X
prostate gland	X	X	X

ORGAN NAME	WEIGHED	PRESERVED	EXAMINED MICROSCOPICALLY (Groups I and IV)
seminal vesicles with coagulating glands	X	X	X
spleen	X	X	X
testes	X	X ^a	X ^a
uterus (body/horns) with cervix and oviducts	X	X	X
vagina		X	X
tissues with macroscopic findings including tissue masses		X	X

^aRight testis and epididymis only.

Preservatives

All tissues - 10% neutral buffered formalin (NBF).

Right testes and right epididymides were placed in Modified Davidson's solution 48 hours prior to permanent storage in 10% neutral buffered formalin. Lungs were infused with formalin prior to their immersion into a larger volume of the same fixative.

Processing

After fixation, the tissues and organs from all animals were routinely processed, embedded in paraffin, cut at a microtome setting of 4-7 microns, mounted on glass slides and stained with hematoxylin and eosin.

2.14. POSTMORTEM F₁ PUPS AND WEANLINGS

Method of Euthanasia

F₁ pups and weanlings were euthanized by carbon dioxide asphyxiation.

Dead and Culled Pups

F₁ pups found dead at birth were identified as stillborn or alive but found dead (lung flotation test). F₁ pups found dead during the lactation period were examined to the maximum extent possible for defects and/or the cause of death, and for the presence or absence of milk in the stomach. Dead pups were preserved intact in 10% NBF. Partially cannibalized pups

were examined to the maximum extent possible and discarded. Culled F₁ pups were examined for external abnormalities. If unremarkable, these pups were then euthanized via an intraperitoneal injection of sodium pentobarbital and discarded. Culled F₁ pups with external abnormalities were preserved intact in 10% NBF.

Macroscopic Examination and Tissues Preserved

Macroscopic examinations were performed on up to 3 randomly selected pups/sex/litter on Day 28 of lactation. Examinations included observations of any structural abnormalities or pathological changes. Special attention was given to the organs of the reproductive system, brain, liver, kidneys, pituitary, adrenal gland, spleen, heart and thymus gland.

All remaining F₁ pups were examined for external abnormalities and euthanized. Pups with external abnormalities were preserved intact in 10% NBF. Pups with no external abnormalities were discarded. No further macroscopic postmortem examinations were performed.

Organ Weights

The following organs were weighed from one randomly selected pup/sex/litter sacrificed on Day 28 of lactation:

brain
spleen
thymus gland

Organ weight data is presented as absolute values and relative to terminal body weight and brain weight.

2.15. SPERM COUNT, MOTILITY AND MORPHOLOGY ASSESSMENTS

The following sperm evaluations were conducted for all control and high exposure P₀ males (samples and images were collected but not evaluated for all other males): 1) motility; 2) a count of homogenization-resistant testicular sperm; 3) a count of caudal epididymal sperm; and 4) sperm morphology (cauda epididymis). Evaluations were performed by Pathology Associates International, Frederick, MD (PAI) as follows:

The right testis and right epididymis from each animal were removed intact, weighed (testes weighed together and also separately) and preserved.

The left epididymis was removed intact, weighed, and frozen on dry ice for transport to PAI. The epididymides were stored frozen at -70 °C until evaluation for caudal sperm count. Each epididymis was thawed and the caudal portion removed and weighed. A homogenized sample of the caudal epididymis was stained and then examined using the Hamilton Thorne IVOS sperm analyzer. For each stained preparation, 20 fields were counted. The total number of sperm in the caudal epididymis was calculated and adjusted for the caudal epididymal weight. Additionally, for each male, two sperm morphology slides were prepared, stained with Eosin and evaluated for morphological development.

The left vas deferens was excised and placed in a prewarmed solution of phosphate buffered saline and 1% Bovine Serum Albumin. After a minimum three minute “swimout” period, a sample was placed in a Hamilton Thorne IVOS sperm analyzer. Five fields were selected and stored as digital images. The images were analyzed for percent motility and transferred to optical media for permanent storage.

The left testis was removed and frozen on dry ice for transport to PAI. The testes were stored frozen at -20 °C until processed for counting of homogenization-resistant sperm.

(See Appendix AA for details and methodology.)

Tissues retained from these evaluations will be discarded following issuance of the final report following consultation with the Sponsor.

2.16. STATISTICAL ANALYSIS

2.16.1. CONTINUOUS DATA

The following parameters were analyzed statistically:

- Body weights
- Body weight change
- Feed consumption values
- Estrus cycle data

Organ weight data
Gestation length
Pup body weights
Number of pups (live, dead, total)

Method of Analysis

Mean values of all exposure groups were compared to the mean value for the control group at each time interval.

Evaluation of equality of group means was made by the appropriate statistical method, followed by a multiple comparison test if needed. The parametric method was the standard one-way analysis of variance (ANOVA) using the F ratio to assess significance (Dunlap and Duffy, 1975). If significant differences among the means were indicated, Dunnett's t-test (Dunlap et al., 1981) was used to determine which means were significantly different from the control. All statistical t tests were conducted at the 5% and 1% significance levels.

Exceptions

Statistical evaluations were not performed when the standard deviation for the control group was 0 and/or N (number of animals) in the control group was less than or equal to two.

Exposure groups were eliminated from statistical analysis if their standard deviation was 0 and/or N (number of animals) in the group was less than or equal to two.

2.16.2. SPERM AND MOTILITY ANALYSIS

The following parameters were analyzed statistically:

Mean sperm count (homogenization-resistant testicular sperm count and caudal epididymal sperm count) and motility data.

A Kruskal-Wallis non-parametric ANOVA test was performed to assess significance (Kruskal and Wallis, 1952, 1953). If a significant difference occurred ($p < 0.05$), the Wilcoxon (Mann-Whitney U) test (Kruskal, 1957) was used for pair-wise comparisons of each treated group to the vehicle control group.

Animals with fewer than 25 sperm cells present in the motility analysis were excluded. Animals with at least 25 sperm cells were included in statistical analysis; however, animals with fewer than 50 cells were identified to have a low count. The mean caudal epididymus weight was compared using one-way analysis of variance (ANOVA) technique. If ANOVA was significant, Dunnett's test (Dunnett, 1955, 1964) was used for pair-wise comparisons of each treated group to the control group at the 5% and 1% risk levels. Statistics were performed using an IBM compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

2.16.3. INCIDENCE DATA

The following parameters were analyzed statistically:

Mortality rates

Mating indices (male and female)

Pregnancy rates

Male fertility indices

Live birth indices

Pup viability indices (Days 0-4) and lactation indices
(Days 4-21) per litter

Incidence Data Analysis

A Fisher Exact Test with Bonferonni correction was performed to identify differences between the groups (Seigel, 1956).

2.17. DATA STORAGE

All raw data, preserved specimens, and retained samples, as well as the original study protocol and the original final report are to be maintained in the Archives of the Testing Facility upon completion of the study. The Sponsor will determine the final disposition of these materials.

All raw data and all reports generated by Pathology Associates International (PAI), Frederick, MD were maintained by PAI. After submission of the final report, all of the above will be shipped to Huntingdon Life Sciences to be archived.

2.18. REGULATORY REFERENCES

2.18.1. TEST GUIDELINE

This study was designed to meet or exceed the pertinent requirements of:

US EPA Vehicle Emissions Inhalation Exposure Guideline 79.61, CFR Vol. 59, No. 122, 27 June 1994.

US EPA (Environmental Protection Agency) Health Effects Test Guidelines, OPPTS 870.3800, Reproduction and Fertility Effects (August 1998) except this study continued only through the 1st generation of offspring until weaning.

2.18.2. GOOD LABORATORY PRACTICES

This study was conducted in accordance with US EPA 79.60, CFR Vol. 59, No. 122, 27 June 1994 and was performed according to the protocol and Huntingdon Life Sciences' Standard Operating Procedures.

2.18.3. ANIMAL WELFARE ACT COMPLIANCE

The Institutional Animal Care and Use Committee Protocol Review Subcommittee had reviewed this protocol and found it to be in compliance with all appropriate regulations.

This study complied with all appropriate parts of the Animal Welfare Act regulations: 9 CFR Parts 1 and 2 Final Rules, Federal Register, Volume 54, No. 168, August 31, 1989, pp. 36112-36163 effective October 30, 1989 and 9 CFR Part 3 Animal Welfare Standards; Final Rule, Federal Register, Volume 56, No. 32, February 15, 1991, pp. 6426-6505 effective March 18, 1991.

2.19. PROTOCOL DEVIATIONS

The following protocol deviations occurred during the study but were not considered to have compromised the validity or integrity of the study:

1. Due to technician error, all Group I males were placed into the Group I female cages and all Group I females were placed into Group I male cages after the six-hour exposure on 29 October 2001. This error was

discovered during body and feeder weights collection on 30 October 2001.

2. Due to equipment malfunction, temperature and humidity chamber readings for Group II chamber on 14 October 2001, and Group III chamber on 25 October 2001 were not recorded during exposures.
3. Due to technician error, in-chamber observations were not performed or recorded during exposures on Days 60 and 91 (21 October 2001 and 21 November 2001, respectively).
4. Due to technician oversight, organ weights were collected from animal number 3602-11 instead of animal number 3602-9, the randomly selected pup, as per protocol. Organ weights were also taken from animal number 3615-5 and 3615-6 instead of the randomly selected animal numbers 3615-4 and 3615-13, respectively.
5. Due to technician error, Groups III and IV males were without water on 18 November 2001.
6. Due to technician error, the brain, kidneys, liver and spleen were unintentionally evaluated microscopically for selected Groups I and IV animals.
7. Due to technician error, the spleen weight for animal number 4618 and the pituitary gland and adrenal gland weights for animal number 1612 were obtained post-fixation.

3. RESULTS AND DISCUSSION

3.1. CHAMBER MONITORING

(Appendices A and B)

Chamber distribution analyses (see Table IV in Appendix A) showed that the test substance was evenly distributed within each chamber. Chamber monitoring (see Table VI in Appendix A) showed that the chamber oxygen levels were 20%. Chamber room monitoring (see Table VI in Appendix A) showed that no test substance was present in the room and that the sound and light levels were acceptable.

The target and mean (\pm standard deviation) analytical (IR) and nominal concentrations are summarized as follows:

Group	Test Substance	Target Concentration (mg/m ³)	Analytical Concentration (mg/m ³)	Nominal Concentration (mg/m ³)
I	Air Control	0	0 \pm 0	0 \pm 0
II	Gasoline TAME Vapor Condensate	2000	2060 \pm 240	2213 \pm 264
III	Gasoline TAME Vapor Condensate	10000	10500 \pm 516	10600 \pm 541
IV	Gasoline TAME Vapor Condensate	20000	20500 \pm 1184	19430 \pm 859

The analytically measured exposure levels of the airborne test substance were reasonably close to the targeted exposure levels. The measured and nominal concentrations varied somewhat (less than 8%), but reasonably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 24°C and 44% relative humidity.

Mean particle size distribution measurements for the exposures are summarized as follows:

Group	Test Substance	Mass Median Aerodynamic Diameter (μm)	Geometric Standard Deviation	Total Mass Concentration (mg/m³)
I	Air Control	2.921	1.992	4.33 x 10 ⁻³
II	Gasoline TAME Vapor Condensate	3.329	2.112	5.31 x 10 ⁻³
III	Gasoline TAME Vapor Condensate	4.617	2.102	4.79 x 10 ⁻³
IV	Gasoline TAME Vapor Condensate	2.719	2.178	3.40 x 10 ⁻³

These results indicated that the atmospheres were essentially vapor only as expected since there was no substantial difference between the particulate levels in the test substance chambers and the Air Control chambers. Some particles are invariably present in chamber atmospheres, representing background air. It is unlikely that gasoline vapor condensed on these particles given the volatility of these light end vapor components and the high level of consistency in constituent proportions demonstrated analytically from week to week as next discussed.

Analysis of the major components in the neat test substance and the test atmospheres (see Appendix B) showed an acceptably close comparison between the neat test substance and the vaporized test substance. This data demonstrated that the test animals were exposed, as expected, to all of the major components of the test substance in their reasonably proper proportion. The data was consistent from week-to-week during the study indicating stability of the test substance and the atmosphere generation techniques.

3.2. PARENTAL DATA (P₀ GENERATION)

3.2.1. MORTALITY

(Table 1; Appendix C)

There was no effect of treatment on survival. One female rat (#4602) in the 20000 mg/m³ group was accidentally killed on Day 66 during handling for vaginal smearing. One female rat (#1606) in the Air Control group was found dead on Day 94, one day following parturition. A second female rat (#1611) in the Air Control group had total litter loss on Lactation Day 4. No males died prior to scheduled sacrifice.

3.2.2. PHYSICAL OBSERVATION DATA

(Tables 2, 3 and 4; Appendices A, D, E and F)

The test animals were unremarkable in-chamber during the exposure periods.

The test animals were generally unremarkable during the non-exposure periods during the premating period in both sexes, the mating/postmating period in the male rats, and the gestation and lactation periods in the female rats. Scattered observations such as chromodacryorrhea, lacrimation and alopecia were noted but were not considered treatment-related.

3.2.3. BODY WEIGHTS – PREMATING PERIOD

(Tables 5 and 6; Appendices G and H)

There were no exposure-related differences in body weights or weight changes in the test substance exposed animals compared to the Air Control animals. A few statistically significant differences in body weights or weight changes were noted at several intervals for some exposed groups. However, these were not in a treatment-related pattern and were not attributed to the test substance.

3.2.4. MATERNAL BODY WEIGHTS - GESTATION AND LACTATION PERIODS

(Tables 7, 8, 9 and 10; Appendices I, J, K and L)

There were no exposure-related differences in body weights or weight changes in the test substance exposed animals compared to the Air Control animals.

3.2.5. FEED CONSUMPTION – PREMATING PERIOD

(Table 11; Appendix M)

There were no exposure-related differences in feed consumption in the test substance exposed animals compared to the Air Control animals. A few statistically significant differences (mostly decreases relative to control values) were noted at several intervals and mostly in the 10000 and 20000 mg/m³ exposed animals. However, these were very scattered and not in a treatment-related pattern.

3.2.6. MATERNAL FEED CONSUMPTION - GESTATION AND LACTATION PERIODS

(Tables 12 and 13; Appendices N and O)

There were no exposure-related differences in feed consumption during the gestation period in the test substance exposed animals compared to the Air Control animals. Exposure-related statistically significant decreases (although generally less than 15%) in feed consumption were seen during the lactation period (especially during the mid-lactation period) in the test animals at all exposure levels compared to the Air Control animals and seemed to correlate with the decreases in pup body weight gains noted at the same time (see section 3.3.2.).

3.2.7. ESTROUS CYCLE DATA – PREMATING PERIOD

(Table 14; Appendix P)

There were no exposure-related differences in estrous cycle data (as measured by cycle length and number of estrous cycles) in the test substance exposed animals compared to the Air Control animals. A statistically significant decrease in the number of estrous cycles relative to control values was noted in the 2000 mg/m³ group. However, this was not in a treatment-related pattern. At least 2 (and up to 9) animals in each test group had extended periods of diestrus or estrus indicative of pseudopregnancy. However, all of these animals (except #3618) eventually were confirmed mated during the mating period.

3.2.8. MATING, FERTILITY AND GESTATION INDICES

(Tables 15 and 16; Appendices Q and R)

Mating indices for the male rats treated with the test substance were comparable to the Air Control group. Mating, fertility and gestation indices for the female rats treated with the test substance were comparable to the Air Control group. There were also no treatment-related differences in the other reproductive parameters up to the time of parturition including the percent of females completing delivery and the duration of gestation, when compared to the Air Control group.

3.2.9. PARTURITION AND LITTER SURVIVAL DATA

(Table 16; Appendices R and S)

Parturition data for the female rats treated with the test substance were comparable to the Air Control group. There were also no treatment-related differences in all parturition parameters including the total number of pups delivered, the number of pups dying, the viability (4 day survival) and lactation (21 day survival) indices, the number of implantation sites per litter, the pup sex ratio and the number of live pups/litter, when compared to the Air Control group. Note that due to software limitations that only data through Lactation Day 21 was calculable.

3.3. PUP DATA (F₁ GENERATION)

3.3.1. OBSERVATION DATA

(Table 17, Appendix T)

The pups were unremarkable during the lactation period. Scattered observations were noted but were not treatment-related.

3.3.2. BODY WEIGHT DATA

(Table 18; Appendix U)

There were exposure-related decreases in body weight gains in the pups feeding from test substance exposed animals for all of the exposed groups compared to the pups feeding from Air Control animals. These statistically significant differences (although generally less than 10%) in body weights and weight changes were noted at several intervals (especially during the mid-lactation period) and seemed to correlate with the decreases in maternal feed consumption noted at the same time (see section 3.2.6). These differences were not significantly different at weaning on Lactation Day 28.

3.4. POSTMORTEM DATA

3.4.1. MACROSCOPIC POSTMORTEM EVALUATIONS - PARENTAL GENERATION

(Table 19; Appendices V and Z)

There were no exposure-related differences in macroscopic postmortem evaluations in the test substance exposed animals compared to the Air Control animals. Scattered observations were noted but were not treatment-related. There were no abnormal findings in female rat #1606 in the Air Control group that was found dead on Day 94, one day following parturition.

3.4.2. ORGAN WEIGHTS - PARENTAL GENERATION

(Table 21; Appendix X)

Exposure-related effects on organ weights included statistically significant increases in kidney weights (absolute and/or relative to body and brain weight) at all exposure levels in the males and at the highest exposure level in the females. These differences for the males (but not the females) were consistent with the microscopic findings discussed in the following section. (Note: Only the high exposure level and control animals were examined microscopically). Exposure-related effects on organ weights also included statistically significant increases in liver weights (absolute and/or relative to body and brain weight) at the 10000 and 20000 mg/m³ exposure levels in the males. These differences for the males were not consistent with any corresponding histopathology findings but may represent a metabolic response. There was also an apparent small increase in adrenal weight in the 20000 mg/m³ males, with a very similar difference from control occurring in the 10000 mg/m³ males; this only achieved statistical significance at the highest exposure level, for the organ weight to body weight ratio only, and was not accompanied by any histopathological findings. There were no other exposure-related differences in organ weights in the test substance exposed animals, compared to the Air Control animals.

3.4.3. SPERM EVALUATIONS – PARENTAL GENERATION

(Appendix AA)

Mean percent motility, epididymal sperm count, homogenization-resistant testicular sperm count and sperm morphology were not affected by treatment with the test substance at an exposure level of 20000 mg/m³. No biologically meaningful differences were observed between the test substance exposed group and the Air Control group.

3.4.4. MACROSCOPIC POSTMORTEM EVALUATIONS - PUPS**(Table 20; Appendix W)**

There were no exposure-related differences in macroscopic postmortem evaluations in the pups feeding from test substance exposed animals compared to the pups feeding from Air Control animals. Scattered observations were noted but were not treatment-related.

3.4.5. ORGAN WEIGHTS - PUPS**(Table 22; Appendix Y)**

There were no exposure-related differences in organ weights in the pups feeding from test substance exposed animals compared to the pups feeding from Air Control animals. A few statistically significant differences were noted. However, these were not in a treatment-related pattern.

3.4.6. HISTOPATHOLOGICAL EVALUATIONS - PARENTAL GENERATION**(Table 23; Appendix Z)**

Microscopic findings that were considered exposure-related were found only in the kidneys of male animals:

Kidneys

Male rats exposed to 20000 mg/m³ of test substance had eosinophilic hyaline granules within the cytoplasm of renal proximal tubular epithelial cells. This lesion was not noted in Air Control animals or females exposed to the test substance. All high exposure males also had evidence of tubular regeneration (basophilic tubules). This lesion was rare among control males and present in only one high exposure female. Additionally, several 20000 mg/m³ males had corticomedullary tubular intraluminal granular casts. Within this study, this observation was unique to males exposed to the test substance. High exposure males also had increased incidence of renal cortical interstitial

mononuclear cell infiltrates and medullary tubular intraluminal eosinophilic material compared to exposed females and control animals of both sexes.

These renal histopathologic changes were consistent with hyaline droplet nephropathy, attributable to accumulation of alpha-2 microglobulin within renal tubular epithelial cells. This species- and gender-specific change has been well documented in male rats exposed to a variety of hydrocarbon compounds (Alden, CL, 1986) and is not considered relevant to humans.

Histologic Findings in Kidneys of P₀ Rats Exposed to Gasoline TAME Vapor Condensate

	Affected Animals			
	Males		Females	
Exposure level (mg/m ³ x10 ³)	0	20	0	20
n=	10	10	10	10
Eosinophilic/hyaline granules, proximal tubular epithelium	0	10	0	0
Basophilic cortical tubules	2	10	0	1
Corticomedullary tubular granular casts	0	2	0	0
Mononuclear cell infiltrate	3	8	1	2
Medullary eosinophilic intraluminal material	0	5	0	1

Reproductive organs

No test substance related microscopic changes were noted in reproductive organs of males and females in this study. High exposure males had sporadic occurrence of lesions affecting the genital system. Two 20000 mg/m³ males had slightly decreased coagulating gland secretory product, whereas one control male had minimally decreased secretory product. A single high exposure male had focal epididymal mononuclear cell infiltrate and another had an epididymal sperm granuloma with concurrent decreased seminal vesicular secretory product. Similar lesions were not present among control males in this study but are commonly seen as background pathology in rats of this age and strain (see Appendix BB). Therefore, the low incidence of these findings

made their relationship to test substance exposure doubtful and these changes were considered incidental to this study.

Other tissues

No test substance related histopathologic changes were noted in other protocol-specified tissues. The remaining microscopic findings were similar to those routinely observed in animals of this age and species and were considered incidental.

4. CONCLUSION

Exposure of rats to 2000, 10000 and 20000 mg/m³ of vapor of Gasoline TAME Vapor Condensate resulted in decreased feed consumption in the dams during lactation at all exposure levels. There were also increases in liver weights in the parental male animals in the 10000 and/or 20000 mg/m³ exposed groups. Increases in relative kidney weights were observed in parental male animals in all exposure groups and in the parental female animals in the 20000 mg/m³ exposed group. Therefore, with respect to general toxicity, a no observable adverse effect level (NOAEL) was not clearly determined. Microscopic findings in high exposure male kidneys (only control and high exposure groups were examined microscopically) were consistent with hydrocarbon nephropathy. However, this finding has been generally accepted (US EPA 1991. Alpha 2 microglobulin: association with chemically induced renal toxicity and neoplasia in male rat. In Risk Assessment Forum, p.85. US Govt. Printing Office, Washington, DC.) not to be relevant to human risk assessment. There was no effect on reproductive performance in the study, including mating, fertility, parturition, lactation and offspring survival except decreases in pup body weight gains were seen at all exposure levels. Therefore, with respect to reproductive performance, a no observable adverse effect level (NOAEL) of Gasoline TAME Vapor Condensate was also not clearly determined. A low observable adverse effect level (LOAEL) of 2000 mg/m³ of Gasoline TAME Vapor Condensate was determined with respect to general toxicity and reproductive performance.

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CALCULATIONS**Female Mating Index:**

no. of females with confirmed mating (sperm and/or vaginal plug) plus no. of pregnant females without evidence of mating (no sperm or vaginal plug)/no. of females placed with males

Female Fertility Index:

no. of females pregnant/no. of females confirmed mating or pregnancy for females without evidence of mating

Pregnancy Index:

no. of females pregnant/no. of females inseminated $\times 100$

Male Mating Index:

no. of males with confirmed mating with a female or pregnancy for females without evidence of mating/no. of males placed with females

Male Fertility Index:

no. of males mating and impregnating a female plus the no. of males with a pregnant female without evidence of mating/no. of males with confirmed mating plus no. of males with a pregnant female without evidence of mating

Gestation Index:

no. of females with liveborn/no. of females with confirmed pregnancy

Viability Index:

no. of pups alive Day 4 precull/no. of liveborn pups

Lactation Index:

no. of pups alive Day 21/no. of pups Day 4 postcull

Live Birth Index:

total no. of liveborn pups/total no. of pups born

	General Preface	
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General Notes

Individual animal data values presented in this report may be rounded. Unrounded individual animal data values are used to calculate the reported mean and standard deviation values. Therefore, use of the reported individual values to reproduce means, standard deviations and/or to perform any subsequent calculations may produce minor discrepancies between the calculated values and those presented in this report.

Key to Abbreviations

M = Male

F = Female

Gen. = General

PG = Pregnant

Group	Group Designation	Exposure Levels (mg/m ³)
I	Control	0 (air only)
II	Low	2000
III	Middle	10000
IV	High	20000

TABLE 1

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF SURVIVAL AND PREGNANCY

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
No. of males at start	N	26	26	26	26
Premating					
- Died/sacrificed	N	0	0	0	0
Postmating					
- Died/sacrificed	N	0	0	0	0
No. of females at start	N	26	26	26	26
Died/sacrificed premating	N	0	0	0	1
No. of females cohabitated	N	26	26	26	25
- Without evidence of mating	N	0	0	1	0
Pregnant	N	0	0	0	0
Nonpregnant	N	0	0	1	0
Pregnant	N	24	25	24	23
- Died/sacrificed	N	0	0	0	0
- Died delivering	N	0	0	0	0
- Died/sacrificed post partum	N	2 ^a	0	0	0
- Aborted died/sacrificed	N	0	0	0	0
Nonpregnant	N	2	1	2	2
- Died/sacrificed	N	0	0	0	0
Total females died/sacrificed	N	2	0	0	1
	%	7.7	0.0	0.0	3.8
Dams delivering	N	24	25	24	23
- With liveborn pups	N	24	25	24	23
	%	100.0	100.0	100.0	100.0
- With all pups stillborn	N	0	0	0	0
	%	0.0	0.0	0.0	0.0

No statistically significant differences

^a Includes animal #1606 (Died Day 94, one day after parturition) and animal #1611 (with total litter loss on Lactation Day 4).

	Summary of Weekly Clinical Observations	Table 2
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Total represents a cumulative total of all animals with the indicated observation one or more times during the study.

Corresponding exposure levels for each group were as follows:

Group I - 0 mg/m³
Group II - 2000 mg/m³
Group III - 10000 mg/m³
Group IV - 20000 mg/m³

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TABLE 2

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES

SUMMARY OF WEEKLY CLINICAL OBSERVATIONS

		DAY OF STUDY																				
		GROUP#	-7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	TOTAL	
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
	II	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
	III	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
Normal																						
WITHIN NORMAL LIMITS	I	26	26	24	23	21	20	21	20	20	20	20	20	21	21	23	22	22	0	26		
	II	24	24	23	23	20	20	20	20	19	19	20	19	19	18	19	20	19	0	25		
	III	26	26	24	22	20	20	20	19	18	18	20	20	19	22	22	21	21	0	26		
	IV	26	26	23	21	21	17	17	17	17	17	17	17	17	17	16	18	18	0	26		
Dead																						
TERMINAL SACRIFICE	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26		
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26		
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26		
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	26		
Gen. Appearance																						
SWOLLEN PAW(S)	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	III	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dermal-General																						
ALOPECIA - EXTREMITIES/SNOUT	I	0	0	1	2	4	5	4	5	5	4	4	4	4	4	4	2	2	2	0	6	
	II	2	2	2	2	6	5	5	5	6	6	5	5	5	5	5	4	4	4	0	6	
	III	0	0	2	3	4	5	5	6	7	7	5	5	6	3	3	3	3	0	7		
	IV	0	0	1	3	3	6	6	6	6	6	6	6	6	6	6	7	5	5	0	7	

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TABLE 2

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES

SUMMARY OF WEEKLY CLINICAL OBSERVATIONS

		GROUP#	DAY OF STUDY																	TOTAL
			-7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	II	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	III	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
SCABS	I	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
	II	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
	III	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	IV	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
BLACK STAINS SNOUT	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	IV	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
ALOPECIA - GENERAL	I	0	0	0	0	0	0	0	0	1	2	2	1	0	0	0	0	0	0	2
	II	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	0	1	0	3
	III	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ULCERATION	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ocular																				
CHROMODACRYORRHEA - UNILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	0	2
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	IV	0	0	1	0	0	1	3	1	1	1	1	1	0	1	0	1	0	0	3
LACRIMATION - UNILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	0	2
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

TABLE 2

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES

SUMMARY OF WEEKLY CLINICAL OBSERVATIONS

[illegible]

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TABLE 3

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF CLINICAL OBSERVATIONS DURING GESTATION - (frequency/animals)

GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
DAY 0 to 25				
Normal				

WITHIN NORMAL LIMITS	71/19	87/22	92/23	96/25
TERMINAL SACRIFICE	2/ 2	1/ 1	1/ 1	2/ 2
Gen. Appearance				

SWOLLEN PAW(S)	1/ 1	0/ 0	0/ 0	0/ 0
Dermal-General				

ALOPECIA - EXTREMITIES/SNOUT	22/ 6	12/ 3	8/ 2	2/ 1
ALOPECIA - GENERAL	8/ 2	0/ 0	0/ 0	0/ 0
Ocular				

CHROMODACRYORRHEA - UNILATERAL	0/ 0	0/ 0	0/ 0	2/ 1
Oral/Buccal				

INCISORS MALOCCLUDED	6/ 2	4/ 1	0/ 0	2/ 1
ORAL SORE	0/ 0	0/ 0	0/ 0	2/ 1
INCISORS BROKEN/MISSING	0/ 0	7/ 3	0/ 0	0/ 0

TABLE 4

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING LACTATION - (frequency/animals)

GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
DAY 1 to 28				
Normal				
WITHIN NORMAL LIMITS	102/17	119/21	132/22	126/22
FOUND DEAD	1/ 1	0/ 0	0/ 0	0/ 0
TERMINAL SACRIFICE	23/23 ^a	25/25	24/24	23/23
Gen. Appearance				
RED EXUDATE (GENERAL)	0/ 0	2/ 2	0/ 0	0/ 0
Dermal-General				
ALOPECIA - EXTREMITIES/SNOUT	18/ 3	16/ 3	12/ 2	4/ 2
ALOPECIA - GENERAL	12/ 2	0/ 0	0/ 0	1/ 1
RED ANO-GENITAL STAINING	0/ 0	0/ 0	0/ 0	1/ 1
ALOPECIA - GENERAL	0/ 0	0/ 0	5/ 1	0/ 0
YELLOW ANO-GENITAL STAINING	0/ 0	1/ 1	0/ 0	0/ 0
Ocular				
CHROMODACRYORRHEA - UNILATERAL	0/ 0	2/ 1	0/ 0	3/ 1
LACRIMATION - UNILATERAL	0/ 0	1/ 1	0/ 0	3/ 1
Oral/Buccal				
INCISORS MALOCCLUDED	12/ 2	8/ 2	0/ 0	6/ 1
ORAL SORE	0/ 0	0/ 0	0/ 0	1/ 1
INCISORS BROKEN/MISSING	4/ 2	9/ 3	0/ 0	0/ 0

^aIncludes animal #1611 with total litter loss on Lactation Day 4.

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TABLE 4

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING LACTATION - (frequency/animals)

GROUP	I	II	III	IV
DOSE LEVEL (MG/M3)	0	2000	10000	20000
Palpable masses				
MASS	0/ 0	4/ 1	0/ 0	0/ 0

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TABLE 5

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES			MEAN BODY WEIGHT VALUES (GRAMS)			
GROUP			I	II	III	IV
DOSE LEVEL (MG/M3)			0	2000	10000	20000
DAY -14	MEAN		150	149	149	149
	S.D.		10.3	10.4	10.8	10.6
	N		26	26	26	26
DAY -7	MEAN		211	210	210	210
	S.D.		13.5	13.6	12.8	13.6
	N		26	26	26	26
DAY 0	MEAN		274	274	274	274
	S.D.		17.0	17.7	14.2	17.4
	N		26	26	26	26
DAY 7	MEAN		317	315	318	311
	S.D.		20.9	22.2	19.1	22.8
	N		26	26	26	26
DAY 14	MEAN		354	351	355	345
	S.D.		23.7	25.6	24.8	27.0
	N		26	26	26	26
DAY 21	MEAN		386	384	384	372
	S.D.		27.8	28.5	28.1	30.7
	N		26	26	26	26
DAY 28	MEAN		405	405	406	394
	S.D.		30.0	31.0	31.7	34.0
	N		26	26	26	26
DAY 35	MEAN		424	425	424	410
	S.D.		31.9	32.2	35.1	38.0
	N		26	26	26	26
DAY 42	MEAN		443	445	439	427
	S.D.		32.8	34.1	39.2	41.0
	N		26	26	26	26

No statistically significant differences

TABLE 5

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES		MEAN BODY WEIGHT VALUES (GRAMS)				
		GROUP	I	II	III	IV
		DOSE LEVEL (MG/M3)	0	2000	10000	20000
DAY 49	MEAN	456	459	454	442	
	S.D.	34.5	36.6	42.9	40.7	
	N	26	26	26	26	
DAY 56	MEAN	474	474	474	463	
	S.D.	36.1	34.9	45.4	43.8	
	N	26	26	26	26	
DAY 63	MEAN	487	486	487	477	
	S.D.	38.7	38.6	49.8	46.5	
	N	26	26	26	26	
DAY 69	MEAN	500	495	499	487	
	S.D.	38.4	40.1	50.5	47.8	
	N	26	26	26	26	
DAY 77	MEAN	508	503	505	495	
	S.D.	39.6	42.7	52.8	47.8	
	N	26	26	26	26	
DAY 84	MEAN	525	516	517	504	
	S.D.	41.4	46.3	55.1	50.2	
	N	26	26	26	26	
DAY 91	MEAN	529	522	519	508	
	S.D.	40.5	47.4	55.0	50.6	
	N	26	26	26	26	
DAY 98	MEAN	538	530	525	520	
	S.D.	42.7	46.1	58.6	51.9	
	N	26	26	26	26	
DAY 105	MEAN	543	539	536	528	
	S.D.	42.0	47.3	62.8	52.2	
	N	26	26	26	26	

No statistically significant differences

TABLE 5

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES			MEAN BODY WEIGHT VALUES (GRAMS)			
			I	II	III	IV
GROUP DOSE LEVEL (MG/M3)			0	2000	10000	20000
DAY -14	MEAN		110	110	110	110
	S.D.		8.2	8.4	8.3	8.1
	N		26	26	26	26
DAY -7	MEAN		151	154	152	154
	S.D.		11.1	12.0	10.6	10.9
	N		26	26	26	26
DAY 0	MEAN		182	188	183	188
	S.D.		13.5	15.5	13.5	12.8
	N		26	26	26	26
DAY 7	MEAN		205	211	203	207
	S.D.		15.4	16.6	16.5	13.5
	N		26	26	26	26
DAY 14	MEAN		226	233	222	225
	S.D.		15.7	20.8	18.0	14.8
	N		26	26	26	26
DAY 21	MEAN		242	250	236	240
	S.D.		16.6	22.5	19.3	14.8
	N		26	26	26	26
DAY 28	MEAN		256	264	252	255
	S.D.		16.9	22.1	19.7	16.0
	N		26	26	26	26
DAY 35	MEAN		263	274	258	262
	S.D.		17.6	24.7	20.9	14.0
	N		26	26	26	26
DAY 42	MEAN		272	282	265	269
	S.D.		16.3	24.2	21.4	16.4
	N		26	26	26	26

No statistically significant differences

TABLE 5

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES			MEAN BODY WEIGHT VALUES (GRAMS)			
GROUP			I	II	III	IV
DOSE LEVEL (MG/M3)			0	2000	10000	20000
DAY 49	MEAN		274	285	272	273
	S.D.		16.2	24.5	22.3	15.3
	N		26	26	26	26
DAY 56	MEAN		284	294	280	283
	S.D.		18.0	25.9	20.9	18.6
	N		26	26	26	26
DAY 63	MEAN		289	305*	284	287
	S.D.		19.8	27.4	22.9	18.5
	N		26	26	26	26
DAY 69	MEAN		291	305	286	292
	S.D.		18.8	28.7	24.7	19.4
	N		26	26	26	25

Statistical key: * = p<0.05

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES			MEAN BODY WEIGHT GAIN (GRAMS)			
DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY -14 TO -7	MEAN		62	60	61	61
	S.D.		5.9	6.8	5.2	6.4
	N		26	26	26	26
DAY -7 TO 0	MEAN		63	64	64	64
	S.D.		6.1	5.8	5.8	5.3
	N		26	26	26	26
DAY 0 TO 7	MEAN		43	41	43	38
	S.D.		6.3	7.7	8.8	8.7
	N		26	26	26	26
DAY 7 TO 14	MEAN		36	36	37	34
	S.D.		6.0	6.5	8.4	6.7
	N		26	26	26	26
DAY 14 TO 21	MEAN		33	32	29	27**
	S.D.		6.7	6.1	6.5	7.1
	N		26	26	26	26
DAY 21 TO 28	MEAN		18	21	22	22
	S.D.		10.1	10.0	6.4	7.4
	N		26	26	26	26
DAY 28 TO 35	MEAN		19	20	17	16
	S.D.		6.1	5.3	5.9	5.8
	N		26	26	26	26

Statistical key: ** = p<0.01

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES			MEAN BODY WEIGHT GAIN (GRAMS)			
DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY 35 TO 42	MEAN		19	20	15	17
	S.D.		5.9	4.5	7.9	6.7
	N		26	26	26	26
DAY 42 TO 49	MEAN		13	14	15	16
	S.D.		6.8	5.8	7.0	8.9
	N		26	26	26	26
DAY 49 TO 56	MEAN		18	15	20	20
	S.D.		9.2	9.6	6.4	7.3
	N		26	26	26	26
DAY 56 TO 63	MEAN		13	12	13	14
	S.D.		8.5	9.1	7.4	8.0
	N		26	26	26	26
DAY 63 TO 69	MEAN		13	9	12	10
	S.D.		7.8	5.8	5.8	6.6
	N		26	26	26	26
DAY 69 TO 77	MEAN		8	8	6	8
	S.D.		7.9	8.6	9.1	6.4
	N		26	26	26	26
DAY 77 TO 84	MEAN		17	14	13	10**
	S.D.		6.8	7.3	8.7	5.9
	N		26	26	26	26

Statistical key: ** = p<0.01

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES				MEAN BODY WEIGHT GAIN (GRAMS)			
GROUP				I	II	III	IV
DOSE LEVEL (MG/M3)				0	2000	10000	20000
DAY	84 TO	91	MEAN	4	6	1	3
			S.D.	5.9	8.0	8.5	9.7
			N	26	26	26	26
DAY	91 TO	98	MEAN	9	8	7	12
			S.D.	6.2	6.8	20.2	6.1
			N	26	26	26	26
DAY	98 TO	105	MEAN	6	9	10	9
			S.D.	7.0	5.8	8.5	5.9
			N	26	26	26	26
DAY	0 TO	69	MEAN	225	221	224	213
			S.D.	27.8	31.6	45.1	35.4
			N	26	26	26	26
DAY	0 TO	105	MEAN	269	265	261	255
			S.D.	32.7	38.4	57.5	40.2
			N	26	26	26	26

No statistically significant differences

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES			MEAN BODY WEIGHT GAIN (GRAMS)			
GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY -14 TO -7	MEAN		41	44	42	44
	S.D.		5.7	5.9	4.1	5.2
	N		26	26	26	26
DAY -7 TO 0	MEAN		31	34	31	34
	S.D.		5.5	6.3	5.4	4.9
	N		26	26	26	26
DAY 0 TO 7	MEAN		22	23	20	19
	S.D.		5.1	5.2	6.9	5.9
	N		26	26	26	26
DAY 7 TO 14	MEAN		21	22	19	18
	S.D.		5.1	7.3	7.7	7.0
	N		26	26	26	26
DAY 14 TO 21	MEAN		16	16	14	16
	S.D.		6.3	6.5	6.7	7.2
	N		26	26	26	26
DAY 21 TO 28	MEAN		14	14	15	14
	S.D.		7.3	7.8	7.3	4.7
	N		26	26	26	26
DAY 28 TO 35	MEAN		7	10	6	7
	S.D.		7.4	7.3	6.9	6.3
	N		26	26	26	26

No statistically significant differences

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES				MEAN BODY WEIGHT GAIN (GRAMS)			
GROUP DOSE LEVEL (MG/M3)				I 0	II 2000	III 10000	IV 20000
DAY	35 TO	42	MEAN	9	8	8	7
			S.D.	5.7	6.3	4.9	7.1
			N	26	26	26	26
DAY	42 TO	49	MEAN	2	3	6	5
			S.D.	7.1	8.2	6.1	5.9
			N	26	26	26	26
DAY	49 TO	56	MEAN	10	9	9	10
			S.D.	9.4	7.9	6.5	9.7
			N	26	26	26	26
DAY	56 TO	63	MEAN	5	11	3	4
			S.D.	8.3	12.7	5.7	8.3
			N	26	26	26	26
DAY	63 TO	69	MEAN	2	0	3	3
			S.D.	6.8	11.3	6.2	5.2
			N	26	26	26	25
DAY	69 TO	77	MEAN			-5	
			S.D.			0.0	
			N			1	
DAY	77 TO	84	MEAN			21	
			S.D.			0.0	
			N			1	

No statistically significant differences

TABLE 6

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES			MEAN BODY WEIGHT GAIN (GRAMS)			
DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY	84 TO	91	MEAN		17	
			S.D.		0.0	
			N		1	
DAY	91 TO	98	MEAN		14	
			S.D.		0.0	
			N		1	
DAY	98 TO	105	MEAN	300	-4	
			S.D.	0.0	0.0	
			N	1	1	
DAY	0 TO	69	MEAN	108	103	103
			S.D.	11.8	15.7	11.4
			N	26	26	25
DAY	0 TO	105	MEAN	129	170	
			S.D.	0.0	0.0	
			N	1	1	

No statistically significant differences

TABLE 7

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF GESTATION BODY WEIGHTS (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 0	MEAN	288	302	283	291
	S.D.	14.6	26.4	23.0	21.0
	N	24	25	24	23
DAY 4	MEAN	310	324	307	314
	S.D.	16.8	29.2	24.3	23.1
	N	24	25	24	23
DAY 7	MEAN	320	334	317	325
	S.D.	17.7	29.8	25.3	23.9
	N	24	25	24	23
DAY 14	MEAN	350	362	346	352
	S.D.	21.5	30.6	26.8	26.1
	N	24	25	24	23
DAY 20	MEAN	414	429	414	419
	S.D.	33.2	34.4	36.2	26.6
	N	24	25	24	23

No statistically significant differences

TABLE 8

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF GESTATION BODY WEIGHT GAIN (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAYS 0 TO 4	MEAN	22	22	23	23
	S.D.	8.6	7.1	5.7	4.7
	N	24	25	24	23
DAYS 4 TO 7	MEAN	10	10	10	11
	S.D.	3.7	5.2	5.3	4.3
	N	24	25	24	23
DAYS 7 TO 14	MEAN	30	28	30	27
	S.D.	7.3	6.5	5.7	11.0
	N	24	25	24	23
DAYS 14 TO 20	MEAN	64	67	67	68
	S.D.	18.4	15.4	15.8	13.8
	N	24	25	24	23
DAYS 0 TO 20	MEAN	126	127	130	129
	S.D.	24.8	15.8	19.4	15.9
	N	24	25	24	23

No statistically significant differences

TABLE 9

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 1	MEAN	313	323	306	315
	S.D.	21.1	27.1	23.6	26.2
	N	23	25	24	23
DAY 4	MEAN	330	330	322	328
	S.D.	23.3	27.6	23.3	25.8
	N	23	25	24	23
DAY 7	MEAN	346	348	341	343
	S.D.	22.1	24.4	22.3	33.0
	N	22	25	24	23
DAY 14	MEAN	365	362	363	364
	S.D.	24.5	28.8	25.3	25.5
	N	22	25	24	23
DAY 21	MEAN	359	358	359	366
	S.D.	21.8	33.8	25.3	23.5
	N	22	25	24	23
DAY 28	MEAN	330	333	326	332
	S.D.	23.2	25.5	25.5	22.1
	N	22	25	24	23

No statistically significant differences

TABLE 10

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAYS 1 TO 4	MEAN	17	7**	16	12
	S.D.	10.5	8.8	8.4	10.3
	N	23	25	24	23
DAYS 4 TO 7	MEAN	15	18	18	15
	S.D.	10.5	13.3	9.3	14.8
	N	22	25	24	23
DAYS 7 TO 14	MEAN	19	14	22	21
	S.D.	8.4	22.9	9.2	12.7
	N	22	25	24	23
DAYS 14 TO 21	MEAN	-7	-3	-3	2
	S.D.	18.1	31.6	10.7	9.7
	N	22	25	24	23
DAYS 21 TO 28	MEAN	-28	-25	-33	-33
	S.D.	16.8	22.3	14.1	15.0
	N	22	25	24	23
DAYS 1 TO 28	MEAN	17	10	20	17
	S.D.	19.5	21.3	12.0	18.3
	N	22	25	24	23

Statistical key: ** = p<0.01

TABLE 11

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)				
		GROUP	I	II	III	IV
		DOSE LEVEL (MG/M3)	0	2000	10000	20000
DAY	-7	MEAN	130	129	133	129
		S.D.	5.3	6.3	5.6	6.5
		N	26	26	26	24
DAY	0	MEAN	107	105	114**	109
		S.D.	6.0	4.9	5.5	6.4
		N	26	25	26	26
DAY	7	MEAN	94	91	90**	88**
		S.D.	5.3	4.0	4.8	5.1
		N	26	26	26	26
DAY	14	MEAN	85	81*	81*	80**
		S.D.	4.1	4.3	4.0	6.0
		N	25	26	26	26
DAY	21	MEAN	80	76**	75**	75**
		S.D.	4.1	3.8	3.6	3.9
		N	26	26	26	26
DAY	28	MEAN	71	69	68**	68*
		S.D.	4.5	4.8	3.3	4.8
		N	26	26	26	26
DAY	35	MEAN	69	66**	65**	67
		S.D.	3.4	3.2	2.6	3.8
		N	26	26	25	25
DAY	42	MEAN	68	65	69	66
		S.D.	3.9	3.1	10.3	4.5
		N	26	26	26	26
DAY	49	MEAN	64	62	59*	63
		S.D.	4.7	6.0	8.2	6.0
		N	26	26	26	26

Statistical key: * = p<0.05 ** = p<0.01

TABLE 11

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)				
		GROUP	I	II	III	IV
		DOSE LEVEL (MG/M3)	0	2000	10000	20000
DAY 56	MEAN	62	60	60	63	
	S.D.	5.9	3.6	3.5	3.9	
	N	26	26	26	25	
DAY 63	MEAN	60	58*	58	62	
	S.D.	3.7	3.3	3.5	3.7	
	N	26	26	26	26	
DAY 69	MEAN	57	58	59	61**	
	S.D.	2.9	3.3	3.2	4.1	
	N	26	26	26	26	
DAY 91	MEAN	52	51	49**	49*	
	S.D.	2.5	2.4	4.5	4.6	
	N	26	26	26	26	
DAY 98	MEAN	52	50	52	54	
	S.D.	2.4	4.8	5.5	3.0	
	N	26	26	26	26	
DAY 105	MEAN	48	48	47	51	
	S.D.	3.2	2.3	7.2	2.3	
	N	26	26	26	26	
Statistical key: * = p<0.05 ** = p<0.01						

Statistical key: * = p<0.05 ** = p<0.01

TABLE 11

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES			MEAN FEED CONSUMPTION (GRAMS/KG/DAY)			
GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY -7	MEAN		137	139	136	144**
	S.D.		6.2	6.5	5.6	7.1
	N		26	26	24	26
DAY 0	MEAN		113	117	114	124**
	S.D.		5.6	6.9	5.5	6.4
	N		24	26	21	26
DAY 7	MEAN		101	97*	95**	98
	S.D.		5.8	5.7	5.7	5.3
	N		26	26	24	26
DAY 14	MEAN		97	94	91**	94
	S.D.		6.0	5.4	5.4	5.7
	N		26	26	25	25
DAY 21	MEAN		92	89	86**	89
	S.D.		6.0	4.8	4.0	6.1
	N		26	26	26	26
DAY 28	MEAN		89	85**	83**	86
	S.D.		5.6	3.7	4.5	5.5
	N		26	26	22	26
DAY 35	MEAN		84	81*	78**	81*
	S.D.		5.0	3.9	3.7	5.3
	N		26	25	24	25
DAY 42	MEAN		82	78*	78*	80
	S.D.		5.4	4.8	5.8	6.9
	N		26	26	26	25
DAY 49	MEAN		77	73*	75	79
	S.D.		5.3	7.6	3.9	8.3
	N		26	26	26	26

Statistical key: * = p<0.05 ** = p<0.01

TABLE 11

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)				
		GROUP	I	II	III	IV
		DOSE LEVEL (MG/M3)	0	2000	10000	20000
DAY 56	MEAN	73	71	72	73	
	S.D.	4.4	4.7	4.7	8.2	
	N	26	26	26	26	
DAY 63	MEAN	74	74	68**	73	
	S.D.	5.1	6.0	4.5	5.6	
	N	26	26	25	26	
DAY 69	MEAN	79	72**	71**	72**	
	S.D.	4.6	4.9	5.3	4.9	
	N	26	26	26	25	

Statistical key: ** = p<0.01

TABLE 12

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF GESTATION FEED CONSUMPTION (GRAMS/KG/DAY)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAYS 0 TO 4	MEAN	79	76	80	78
	S.D.	6.8	6.4	10.8	5.4
	N	24	25	24	22
DAYS 4 TO 7	MEAN	80	77	76	78
	S.D.	5.7	5.3	6.4	5.5
	N	24	25	24	22
DAYS 7 TO 14	MEAN	77	74	74	75
	S.D.	5.2	4.7	5.1	5.3
	N	24	25	24	22
DAYS 14 TO 20	MEAN	67	64	65	66
	S.D.	3.8	4.2	5.0	5.2
	N	24	25	24	22

No statistically significant differences

TABLE 13

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF LACTATION FEED CONSUMPTION (GRAMS/KG/DAY)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAYS 1 TO 4	MEAN	105	89**	97	99
	S.D.	14.2	16.9	14.9	18.1
	N	22	24	24	22
DAYS 4 TO 7	MEAN	118	108*	112	110
	S.D.	10.6	13.2	9.9	11.3
	N	22	25	24	22
DAYS 7 TO 14	MEAN	147	137**	141	135**
	S.D.	10.8	15.7	7.9	11.1
	N	22	25	24	22
DAYS 14 TO 21	MEAN	186	175*	175*	170**
	S.D.	13.4	15.2	12.6	15.6
	N	22	25	24	22
DAYS 21 TO 28	MEAN	333	324	318	304**
	S.D.	27.3	32.9	26.8	27.2
	N	19	21	19	19

Statistical key: * = p<0.05 ** = p<0.01

	Summary of Estrous Stages Preface	Table 14
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Notes:

Estrous cycles were evaluated for at least 21 days (during the pre-mating period) and up to the day when successful mating occurred. Any periods of pseudopregnancy were excluded from these calculations.

TABLE 14

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ESTROUS STAGES^a

GROUP DOSE LEVEL (mg/m ³)		I 0	II 2000	III 10000	IV 20000
FEMALES EXAMINED		26	26	26	26
PRE-MATING					
CYCLE LENGTH (days)	MEAN	4.2	4.6	4.2	4.4
	S.D.	0.6	1.1	0.5	0.8
	N	25	23	25	24
MATING					
NUMBER PASSING > 1 ESTRUS WITHOUT MATING		0	0	0	1
NUMBER OF ANIMALS PREGNANT		24	25	24	23

^aEstrous cycles were evaluated for at least 21 days (during premating) and up to the day when successful mating occurred. Any periods of pseudopregancy were excluded from these calculations (see also Appendix P).

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TABLE 15

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF COHABITATION DATA					
GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Females paired with males	N	26	26	26	25
Total number mated	N	26	26	25	25
female mating index	%	100.0	100.0	96.2	100.0
pregnant	N	24	25	24	23
female fertility index	%	92.3	96.2	96.0	92.0
pregnancy index	%	100.0	100.0	100.0	100.0
Males placed with females	N	26	26	26	25
Total number mated	N	26	26	25	25
male mating index	%	100.0	100.0	96.2	100.0
with females pregnant	N	24	25	24	23
male fertility index	%	92.3	96.2	96.0	92.0
Females with defined day 0 of Gestation	N	26	26	25	25
No. of days until Mating	MEAN	2.7	2.2	2.0	2.9
	S.D.	1.31	1.06	1.21	1.42
Day 1 to 4	N	24	26	24	23
	%	92.3	100.0	96.0	92.0
Day 5 to 8	N	2	0	1	2
	%	7.7	0.0	4.0	8.0
Day 9 to 14	N	0	0	0	0
	%	0.0	0.0	0.0	0.0
No statistically significant differences					

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TABLE 16

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF DELIVERY AND LITTER DATA					
DOSE LEVEL (MG/M3)	GROUP	I 0	II 2000	III 10000	IV 20000
Females on Study	N	26	26	26	25
Females Mated	N	26	26	25	25
Mating Index	%	100.0	100.0	96.2	100.0
Females Pregnant	N	24	25	24	23
Female Fertility Index	%	92.3	96.2	96.0	92.0
Females with Liveborn	N	24	25	24	23
Gestation Index	%	100.0	100.0	100.0	100.0
Females Completing Delivery	N	24	25	24	23
	%	100.0	100.0	100.0	100.0
with Stillborn Pups	N	1	1	4	1
	%	4.2	4.0	16.7	4.3
with all Stillborn	N	0	0	0	0
	%	0.0	0.0	0.0	0.0
Litters with Liveborn, but no Pups Alive					
day 4	N	1	0	0	0
	%	4.3	0.0	0.0	0.0
day 21	N	1	0	0	0
	%	4.3	0.0	0.0	0.0
Duration of Gestation	MEAN	22.1	21.9	21.8	22.0
	S.D.	0.41	0.33	0.48	0.47
	N	24	25	24	23

No statistically significant differences

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TABLE 16

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF DELIVERY AND LITTER DATA

DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters with Liveborn Pups	N	23	25	24	23
Pups Delivered (total)	N	322	361	319	328
	MEAN	14.0	14.4	13.3	14.3
	S.D.	3.30	2.16	3.00	3.28
Liveborn	N	321	360	316	327
Live Birth Index	%	99.7	99.7	99.1	99.7
Stillborn	N	1	1	4	1
	%	0.3	0.3	1.3	0.3
Culled day 4		93	102	75	99
Liveborn, not culled prior to day 4	N	228	258	241	228
Pups Dying, Missing, and/or Cannibalized day 0	N	0	1	2	4
	%	0.0	0.3	0.6	1.2
days 1-4	N	8	7	3	7
	%	2.5	1.9	1.0	2.1
days 5-21	N	1	2	1	1
	%	0.3	0.6	0.3	0.3
days 0-4	N	8	8	5	11
	%	2.5	2.2	1.6	3.4
days 0-21	N	9	10	6	12
	%	2.8	2.8	1.9	3.7
Pups Surviving 4 days	N	313	352	310	316
Viability Index (Litter Mean)	%	97.5	98.1	98.3	96.2
Pups Surviving 21 days	N	219	248	234	216
Lactation Index (Litter Mean)	%	99.5	99.2	99.6	99.6

No statistically significant differences

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TABLE 16

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF DELIVERY AND LITTER DATA

DOSE LEVEL (MG/M3)	GROUP	I 0	II 2000	III 10000	IV 20000
Implantation Sites per Litter	N MEAN S.D.	354 14.7 3.09	398 15.9 1.75	374 15.6 2.19	364 15.8 2.53
Sex Ratio - Male Pups:Total Pups day 0	N %	155 48.3	173 48.1	154 48.9	165 50.5
day 21	N %	111 50.7	122 49.2	118 50.4	107 49.5
Live Pups/Litter day 1	MEAN S.D. N	13.8 3.46 23	14.2 2.03 25	13.0 2.79 24	13.9 3.60 23
day 4 preculling	MEAN S.D. N	14.2 2.07 22	14.1 1.96 25	12.9 2.87 24	13.7 3.57 23
day 4 postculling	MEAN S.D. N	10.0 0.00 22	10.0 0.00 25	9.8 0.66 24	9.4* 1.34 23
day 7	MEAN S.D. N	10.0 0.21 22	10.0 0.00 25	9.8 0.66 24	9.4 1.34 23
day 14	MEAN S.D. N	10.0 0.21 22	10.0 0.20 25	9.8 0.66 24	9.4* 1.34 23
day 21	MEAN S.D. N	10.0 0.21 22	9.9 0.28 25	9.8 0.68 24	9.4 1.34 23
day 28	MEAN S.D. N	10.0 0.21 22	9.9 0.44 25	9.8 0.68 24	9.4 1.34 23

Statistical key: * = p<0.05

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TABLE 17

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP CLINICAL OBSERVATIONS DURING LACTATION - (frequency/animals)

GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
DAY 0 to 28				
Normal				

WITHIN NORMAL LIMITS	1524/24	1702/25	1560/24	1500/23
FOUND DEAD	0/ 0	0/ 0	2/ 2	4/ 3
Gen. Appearance				

SOFT PROTRUSION - MID ABDOMEN	0/ 0	1/ 1	0/ 0	0/ 0
Dermal-General				

SCABS	0/ 0	0/ 0	1/ 1	0/ 0
LACERATION - RIGHT LOWER DORSAL	0/ 0	1/ 1	0/ 0	0/ 0
Ocular				

EYE(S) - APPEAR DAMAGED	0/ 0	0/ 0	0/ 0	3/ 1
ENOPHTHALMOS - UNILATERAL	0/ 0	0/ 0	0/ 0	1/ 1
Miscellaneous				

TIP OF TAIL MISSING	0/ 0	1/ 1	0/ 0	0/ 0

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 1 males	MEAN	7.4	7.3	7.3	7.1
	S.D.	0.54	0.44	0.77	1.00
	N	23	25	24	23
1 females	MEAN	7.1	6.9	7.0	6.7
	S.D.	0.49	0.44	0.74	1.01
	N	22	25	24	23
1 males+females	MEAN	7.2	7.1	7.2	6.9
	S.D.	0.52	0.45	0.78	0.96
	N	23	25	24	23
day 4 males preculling	MEAN	10.6	10.2	10.4	9.8
	S.D.	1.05	1.03	1.52	1.59
	N	22	25	24	23
4 females preculling	MEAN	10.1	9.8	10.0	9.3
	S.D.	0.92	1.00	1.39	1.72
	N	22	25	24	23
4 males+females preculling	MEAN	10.4	10.0	10.2	9.6
	S.D.	1.03	1.02	1.49	1.62
	N	22	25	24	23
day 4 males postculling	MEAN	10.6	10.2	10.4	9.8
	S.D.	1.09	1.06	1.52	1.56
	N	22	25	24	23
4 females postculling	MEAN	10.1	9.8	10.0	9.3
	S.D.	0.93	1.00	1.41	1.78
	N	22	25	24	23
4 males+females postculling	MEAN	10.4	10.0	10.2	9.6
	S.D.	1.00	1.02	1.49	1.63
	N	22	25	24	23

No statistically significant differences

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
day 7 males	MEAN	14.9	14.0	14.3	13.9
	S.D.	1.33	1.33	1.55	1.92
	N	22	25	24	23
7 females	MEAN	14.1	13.4	13.7	13.2
	S.D.	1.15	1.41	1.41	2.01
	N	22	25	24	23
7 males+females	MEAN	14.5	13.7	14.0	13.5
	S.D.	1.23	1.35	1.48	1.91
	N	22	25	24	23
day 14 males	MEAN	26.5	24.9	24.6*	24.2**
	S.D.	1.82	2.48	2.32	2.82
	N	22	25	24	23
14 females	MEAN	25.6	24.2	23.9*	23.1**
	S.D.	1.67	2.46	2.19	2.93
	N	22	25	24	23
14 males+females	MEAN	26.0	24.6	24.3*	23.7**
	S.D.	1.68	2.42	2.22	2.81
	N	22	25	24	23
day 21 males	MEAN	43.3	39.3*	40.1	39.3*
	S.D.	4.21	4.36	4.75	6.11
	N	22	25	24	23
21 females	MEAN	41.5	38.7	39.1	37.8
	S.D.	3.72	4.64	4.84	6.16
	N	22	25	24	23
21 males+females	MEAN	42.5	39.0*	39.7	38.5*
	S.D.	3.87	4.38	4.65	6.02
	N	22	25	24	23

Statistical key: * = p<0.05 ** = p<0.01

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 28 males	MEAN	81.6	78.0	77.6	76.6
	S.D.	5.90	7.07	8.25	10.53
	N	22	25	24	23
28 females	MEAN	75.8	73.3	72.3	70.8
	S.D.	4.63	6.68	7.68	9.04
	N	22	25	24	23
28 males+females	MEAN	78.8	75.6	75.1	73.6
	S.D.	5.12	6.60	7.66	9.36
	N	22	25	24	23

No statistically significant differences

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 1- 4 males	MEAN	3.2	2.9	3.0	2.7
	S.D.	0.77	0.80	1.01	1.08
	N	22	25	24	23
	females	MEAN	2.9	3.0	2.6
	S.D.	0.63	0.73	0.92	1.13
	N	22	25	24	23
	males+females	MEAN	2.9	3.0	2.7
	S.D.	0.70	0.75	0.96	1.10
	N	22	25	24	23
day 4- 7 males	MEAN	4.2	3.8	3.9	4.1
	S.D.	0.63	0.77	0.76	1.01
	N	22	25	24	23
	females	MEAN	3.6	3.8	3.9
	S.D.	0.59	0.77	0.74	0.97
	N	22	25	24	23
	males+females	MEAN	3.7	3.8	4.0
	S.D.	0.59	0.76	0.73	0.97
	N	22	25	24	23
day 4-21 males	MEAN	32.7	29.0*	29.8	29.5*
	S.D.	3.59	3.85	4.14	5.10
	N	22	25	24	23
	females	MEAN	28.9	29.1	28.5
	S.D.	3.41	4.06	4.34	5.02
	N	22	25	24	23
	males+females	MEAN	28.9*	29.5	29.0*
	S.D.	3.41	3.84	4.09	4.96
	N	22	25	24	23

Statistical key: * = p<0.05

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

GROUP DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
day 4-28 males	MEAN	71.0	67.8	67.2	66.7
	S.D.	5.27	6.76	7.66	9.47
	N	22	25	24	23
females	MEAN	65.7	63.6	62.3	61.5
	S.D.	4.36	6.30	7.26	7.84
	N	22	25	24	23
males+females	MEAN	68.4	65.6	64.9	64.0
	S.D.	4.67	6.27	7.11	8.26
	N	22	25	24	23
day 7-14 males	MEAN	11.6	10.9	10.3*	10.3*
	S.D.	1.16	1.81	1.33	1.63
	N	22	25	24	23
females	MEAN	11.5	10.8	10.1**	9.9**
	S.D.	1.20	1.71	1.46	1.47
	N	22	25	24	23
males+females	MEAN	11.5	10.9	10.2**	10.1**
	S.D.	1.14	1.73	1.36	1.49
	N	22	25	24	23
day 7-28 males	MEAN	66.8	64.0	63.3	62.7
	S.D.	4.95	6.40	7.22	8.91
	N	22	25	24	23
females	MEAN	61.6	60.0	58.6	57.6
	S.D.	3.95	5.96	6.85	7.37
	N	22	25	24	23
males+females	MEAN	64.2	61.9	61.1	60.0
	S.D.	4.31	5.92	6.71	7.74
	N	22	25	24	23

Statistical key: * = p<0.05 ** = p<0.01

TABLE 18

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
day 14-21 males	MEAN	16.9	14.3*	15.6	15.0
	S.D.	2.74	2.23	2.91	3.75
	N	22	25	24	23
females	MEAN	15.8	14.5	15.2	14.7
	S.D.	2.64	2.56	2.97	3.61
	N	22	25	24	23
males+females	MEAN	16.4	14.4	15.4	14.8
	S.D.	2.60	2.30	2.85	3.62
	N	22	25	24	23
day 14-28 males	MEAN	55.2	53.1	53.0	52.3
	S.D.	4.35	5.02	6.33	8.01
	N	22	25	24	23
females	MEAN	50.2	49.2	48.4	47.7
	S.D.	3.27	4.70	5.79	6.44
	N	22	25	24	23
males+females	MEAN	52.7	51.1	50.8	49.9
	S.D.	3.72	4.61	5.78	6.83
	N	22	25	24	23
day 21-28 males	MEAN	38.3	38.8	37.5	37.3
	S.D.	2.79	3.90	3.93	5.13
	N	22	25	24	23
females	MEAN	34.3	34.7	33.2	33.0
	S.D.	2.41	3.37	3.29	3.26
	N	22	25	24	23
males+females	MEAN	36.3	36.7	35.4	35.0
	S.D.	2.45	3.44	3.44	3.81
	N	22	25	24	23

Statistical key: * = p<0.05

TABLE 19

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
MALES	N	26	26	26	26
SKIN	N	2	0	0	0

ABSCCESS	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
SCAB	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
LUNGS	N	4	2	1	1

DISCOLORED FOCI	N	4	2	1	1
	%	15.4	7.7	3.8	3.8
KIDNEY	N	2	4	1	1

DILATED RENAL PELVIS	N	2	4	1	1
	%	7.7	15.4	3.8	3.8
GONADS	N	0	0	1	1

EPIDIDYIMIDES- ABSCESS	N	0	0	1	1
	%	0.0	0.0	3.8	3.8

TABLE 19

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
FEMALES	N	26	26	26	25
THYMUS	N	0	0	0	1

DISCOLORED FOCI	N	0	0	0	1
	%	0.0	0.0	0.0	4.0
THORACIC CAVITY	N	0	0	0	1

FLUID FILLED	N	0	0	0	1
	%	0.0	0.0	0.0	4.0
LUNGS	N	3	3	2	5

DISCOLORED FOCI	N	3	3	2	5
	%	11.5	11.5	7.7	20.0
LIVER	N	0	1	0	0

ADHESION	N	0	1	0	0
	%	0.0	3.8	0.0	0.0

TABLE 19

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

	GROUP	I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FEMALES	N	26	26	26	25
KIDNEY	N	0	3	0	1

DILATED RENAL PELVIS	N	0	3	0	1
	%	0.0	11.5	0.0	4.0
UTERUS	N	0	0	0	1

CYST(S)	N	0	0	0	1
	%	0.0	0.0	0.0	4.0
OVARY	N	0	0	1	0

CYST(S)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP NECROPSY OBSERVATIONS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	23	25	24	23
Pups Evaluated	N	226	261	226	242
Live	N	225	260	222	241
Stillborn	N	1	1	4	1
GROSS EXAM					

Litter Incidence	N	2	3	3	3
Pup Incidence	N	2	4	3	5
AUTOLYSIS					
Pup Incidence	N	2	1	1	4
	%	0.9	0.4	0.4	1.7
Litter Incidence	N	2	1	1	3
	%	8.7	4.0	4.2	13.0
CANNIBALIZED					
Pup Incidence	N	1	3	2	3
	%	0.4	1.1	0.9	1.2
Litter Incidence	N	1	3	2	1
	%	4.3	12.0	8.3	4.3
INTERNAL SEX UNDETERMINED					
Pup Incidence	N	1	2	1	3
	%	0.4	0.8	0.4	1.2
Litter Incidence	N	1	2	1	2
	%	4.3	8.0	4.2	8.7
LUNGS					

Litter Incidence	N	1	3	3	4
Pup Incidence	N	1	3	4	6

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP NECROPSY OBSERVATIONS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	23	25	24	23
Pups Evaluated	N	226	261	226	242
Live	N	225	260	222	241
Stillborn	N	1	1	4	1
LUNG FLOTATION TEST - STILLBORN					
Pup Incidence	N	1	1	2	1
	%	0.4	0.4	0.9	0.4
Litter Incidence	N	1	1	2	1
	%	4.3	4.0	8.3	4.3
LUNG FLOTATION TEST - FOUND DEAD					
Pup Incidence	N	0	2	2	5
	%	0.0	0.8	0.9	2.1
Litter Incidence	N	0	2	2	3
	%	0.0	8.0	8.3	13.0
STOMACH					

Litter Incidence	N	2	5	8	6
Pup Incidence	N	2	10	9	8
NO MILK IN STOMACH					
Pup Incidence	N	0	3	3	3
	%	0.0	1.1	1.3	1.2
Litter Incidence	N	0	3	3	3
	%	0.0	12.0	12.5	13.0
MILK IN STOMACH					
Pup Incidence	N	1	5	3	2
	%	0.4	1.9	1.3	0.8
Litter Incidence	N	1	4	3	2
	%	4.3	16.0	12.5	8.7

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TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	23	25	24	23
Pups Evaluated	N	226	261	226	242
Live	N	225	260	222	241
Stillborn	N	1	1	4	1
MILK UNDETERMINED					
Pup Incidence	N	1	2	3	3
	%	0.4	0.8	1.3	1.2
Litter Incidence	N	1	2	3	2
	%	4.3	8.0	12.5	8.7
KIDNEY					

Litter Incidence	N	2	0	0	1
Pup Incidence	N	3	0	0	1
M CYSTIC KIDNEY					
Pup Incidence	N	3	0	0	1
	%	1.3	0.0	0.0	0.4
Litter Incidence	N	2	0	0	1
	%	8.7	0.0	0.0	4.3

TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR DEAD PUPS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	2	4	5	5
Pups Evaluated	N	2	5	5	6
GROSS EXAM					
Litter Incidence	N	1	1	0	3
Pup Incidence	N	1	1	0	4
AUTOLYSIS					
Pup Incidence	N	1	1	0	4
	%	50.0	20.0	0.0	66.7
Litter Incidence	N	1	1	0	3
	%	50.0	25.0	0.0	60.0
CANNIBALIZED					
Pup Incidence	N	0	0	0	2
	%	0.0	0.0	0.0	33.3
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	20.0
INTERNAL SEX UNDETERMINED					
Pup Incidence	N	0	1	0	3
	%	0.0	20.0	0.0	50.0
Litter Incidence	N	0	1	0	2
	%	0.0	25.0	0.0	40.0
LUNGS					
Litter Incidence	N	0	2	2	3
Pup Incidence	N	0	2	2	4
LUNG FLOTATION TEST - FOUND DEAD					
Pup Incidence	N	0	2	2	4
	%	0.0	40.0	40.0	66.7
Litter Incidence	N	0	2	2	3
	%	0.0	50.0	40.0	60.0

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR DEAD PUPS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	2	4	5	5
Pups Evaluated	N	2	5	5	6
STOMACH					
Litter Incidence	N	1	4	5	5
Pup Incidence	N	1	5	5	6
NO MILK IN STOMACH					
Pup Incidence	N	0	2	2	2
	%	0.0	40.0	40.0	33.3
Litter Incidence	N	0	2	2	2
	%	0.0	50.0	40.0	40.0
MILK IN STOMACH					
Pup Incidence	N	1	3	3	1
	%	50.0	60.0	60.0	16.7
Litter Incidence	N	1	3	3	1
	%	50.0	75.0	60.0	20.0
MILK UNDETERMINED					
Pup Incidence	N	0	0	0	3
	%	0.0	0.0	0.0	50.0
Litter Incidence	N	0	0	0	2
	%	0.0	0.0	0.0	40.0

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR STILLBORN PUPS

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	1 ^a	1	4	1
Pups Evaluated	N	1	1	4	1
GROSS EXAM					

Litter Incidence	N	1	0	3	0
Pup Incidence	N	1	0	3	0
AUTOLYSIS					
Pup Incidence	N	1	0	1	0
	%	100.0	0.0	25.0	0.0
Litter Incidence	N	1	0	1	0
	%	100.0	0.0	25.0	0.0
CANNIBALIZED					
Pup Incidence	N	1	0	2	0
	%	100.0	0.0	50.0	0.0
Litter Incidence	N	1	0	2	0
	%	100.0	0.0	50.0	0.0
INTERNAL SEX UNDETERMINED					
Pup Incidence	N	1	0	1	0
	%	100.0	0.0	25.0	0.0
Litter Incidence	N	1	0	1	0
	%	100.0	0.0	25.0	0.0
LUNGS					

Litter Incidence	N	1	1	2	1
Pup Incidence	N	1	1	2	1
LUNG FLOTATION TEST - STILLBORN					
Pup Incidence	N	1	1	2 ^b	1
	%	100.0	100.0	50.0	100.0
Litter Incidence	N	1	1	2	1
	%	100.0	100.0	50.0	100.0

^aNumber of litters evaluated does not include the litter from female #1606 due to postpartum death.^bLung floatation test could not be performed on 2 pups because they were cannibalized.

TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR STILLBORN PUPS

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	1	1	4	1
Pups Evaluated	N	1	1	4	1
STOMACH					
Litter Incidence	N	1	1	4	1
Pup Incidence	N	1	1	4	1
NO MILK IN STOMACH					
Pup Incidence	N	0	1	1	1
	%	0.0	100.0	25.0	100.0
Litter Incidence	N	0	1	1	1
	%	0.0	100.0	25.0	100.0
MILK UNDETERMINED					
Pup Incidence	N	1	0	3	0
	%	100.0	0.0	75.0	0.0
Litter Incidence	N	1	0	3	0
	%	100.0	0.0	75.0	0.0

TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR CANNIBALIZED PUPS

	GROUP	I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	0	3	0	1
Pups Evaluated	N	0	3	0	1
GROSS EXAM					
Litter Incidence	N	0	3	0	1
Pup Incidence	N	0	3	0	1
CANNIBALIZED					
Pup Incidence	N		3		1
	%		100.0		100.0
Litter Incidence	N		3		1
	%		100.0		100.0
INTERNAL SEX UNDETERMINED					
Pup Incidence	N		1		0
	%		33.3		0.0
Litter Incidence	N		1		0
	%		33.3		0.0
LUNGS					
Litter Incidence	N	0	0	0	1
Pup Incidence	N	0	0	0	1
LUNG FLOTATION TEST - FOUND DEAD					
Pup Incidence	N		0		1
	%		0.0		100.0
Litter Incidence	N		0		1
	%		0.0		100.0

TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR CANNIBALIZED PUPS

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	0	3	0	1
Pups Evaluated	N	0	3	0	1
STOMACH					

Litter Incidence	N	0	3	0	1
Pup Incidence	N	0	3	0	1
MILK IN STOMACH					
Pup Incidence	N		1		1
	%		33.3		100.0
Litter Incidence	N		1		1
	%		33.3		100.0
MILK UNDETERMINED					
Pup Incidence	N		2		0
	%		66.7		0.0
Litter Incidence	N		2		0
	%		66.7		0.0

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TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR CULLED PUPS

		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	18	19
Pups Evaluated	N	93	102	75	99
STOMACH					

Litter Incidence	N	0	1	0	0
Pup Incidence	N	0	1	0	0
MILK IN STOMACH					
Pup Incidence	N	0	1	0	0
	%	0.0	1.0	0.0	0.0
Litter Incidence	N	0	1	0	0
	%	0.0	4.3	0.0	0.0

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TABLE 20

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF NECROPSY OBSERVATIONS FOR WEANLING PUPS

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	25	24	23
Pups Evaluated	N	130	150	142	135
KIDNEY					

Litter Incidence	N	2	0	0	1
Pup Incidence	N	3	0	0	1
M CYSTIC KIDNEY					
Pup Incidence	N	3	0	0	1
	%	2.3	0.0	0.0	0.7
Litter Incidence	N	2	0	0	1
	%	9.1	0.0	0.0	4.3

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ABSOLUTE ORGAN WEIGHTS

MALES

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
FINAL BODY WEIGHT g	MEAN	549	547	546	536
	S.D.	41.8	46.3	61.6	53.4
	N	26	26	26	26
LIVER g	MEAN	19.212	19.215	20.459	23.036**
	S.D.	2.2868	2.0246	2.5527	3.2028
	N	26	26	26	26
LUNGS g	MEAN	1.8639	1.8484	1.8924	1.8637
	S.D.	.19488	.16416	.21613	.17659
	N	26	26	26	26
BRAIN g	MEAN	2.2095	2.1811	2.2580	2.1912
	S.D.	.11089	.11787	.13539	.10143
	N	26	26	26	26
SPLEEN g	MEAN	0.8242	0.7759	0.8029	0.8357
	S.D.	.11078	.10606	.12719	.16116
	N	26	26	26	26
KIDNEYS g	MEAN	4.1439	4.4490	4.8369**	5.0590**
	S.D.	.38270	.42572	.52852	.58894
	N	26	26	26	26
PROSTATE g	MEAN	1.1776	1.2346	1.2936	1.2509
	S.D.	.21447	.23602	.32424	.23066
	N	26	26	26	26
SEM.VES & CO.GL. g	MEAN	1.9053	2.1206	2.0182	2.0796
	S.D.	.41974	.39892	.39788	.31370
	N	26	26	26	26

Statistical key: ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ABSOLUTE ORGAN WEIGHTS

MALES

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
ADRENALS g	MEAN	0.0601	0.0607	0.0652	0.0653
	S.D.	.00639	.01029	.01049	.01107
	N	26	26	26	26
PITUITARY g	MEAN	0.0129	0.0128	0.0123	0.0125
	S.D.	.00314	.00218	.00280	.00250
	N	26	26	26	26
TESTIS - LEFT g	MEAN	1.7202	1.7296	1.7010	1.7136
	S.D.	.12969	.12945	.14548	.14755
	N	26	26	26	26
TESTIS - RIGHT g	MEAN	1.7335	1.7373	1.7098	1.7338
	S.D.	.13481	.12689	.14464	.14980
	N	26	26	26	26
TESTES g	MEAN	3.4374	3.4607	3.4078	3.4366
	S.D.	.24845	.25209	.27997	.29332
	N	26	26	26	26
EPIDIDYMIS LEFT g	MEAN	0.7376	0.7603	0.7543	0.7366
	S.D.	.06945	.07334	.09068	.10791
	N	26	26	26	26
EPIDIDYMIS RIGHT g	MEAN	0.7366	0.7580	0.7842	0.7287
	S.D.	.08158	.06256	.16662	.06452
	N	26	26	26	26
EPIDIDYMIDES g	MEAN	1.4696	1.5116	1.5249	1.4600
	S.D.	.15039	.12979	.21216	.12979
	N	26	26	26	26

No statistically significant differences

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ABSOLUTE ORGAN WEIGHTS

FEMALES

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	330	333	326	332
	S.D.	23.2	25.5	25.5	22.1
	N	22	25	24	23
LIVER g	MEAN	14.783	14.573	14.434	15.496
	S.D.	1.8421	2.1092	2.0334	1.9595
	N	22	25	24	23
LUNGS g	MEAN	1.5005	1.5142	1.4820	1.5328
	S.D.	.13579	.11407	.18384	.14834
	N	22	25	24	23
BRAIN g	MEAN	1.9710	1.9924	1.9847	1.9608
	S.D.	.09218	.07517	.10169	.09417
	N	22	25	24	23
SPLEEN g	MEAN	0.6030	0.6273	0.5793	0.5664
	S.D.	.06944	.10630	.07477	.05824
	N	22	25	24	23
KIDNEYS g	MEAN	2.7348	2.8034	2.7656	3.0152**
	S.D.	.24674	.24187	.16995	.31057
	N	22	25	24	23
UTERUS/OVIDUCTS g	MEAN	0.6061	0.5919	0.6399	0.5676
	S.D.	.15937	.17887	.20901	.12885
	N	22	25	24	23
ADRENALS g	MEAN	0.0743	0.0738	0.0684	0.0739
	S.D.	.01065	.01056	.00704	.00783
	N	22	25	24	23

Statistical key: ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ABSOLUTE ORGAN WEIGHTS

FEMALES

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
PITUITARY g	MEAN	0.0151	0.0153	0.0154	0.0154
	S.D.	.00261	.00233	.00284	.00203
	N	22	25	24	23
OVARY LEFT g	MEAN	0.0529	0.0539	0.0484	0.0540
	S.D.	.01067	.00848	.00998	.00976
	N	22	25	24	23
OVARY RIGHT g	MEAN	0.0562	0.0557	0.0850	0.0522
	S.D.	.01079	.00831	.15888	.00754
	N	22	25	24	23
OVARIES g	MEAN	0.1066	0.1090	0.1329	0.1043
	S.D.	.01480	.01207	.16199	.01556
	N	22	25	24	23

No statistically significant differences

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

MALES

GROUP DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
FINAL BODY WEIGHT g	MEAN	549	547	546	536
	S.D.	41.8	46.3	61.6	53.4
	N	26	26	26	26
LIVER Ratio	MEAN	0.0349	0.0351	0.0375*	0.0431**
	S.D.	.00259	.00223	.00254	.00452
	N	26	26	26	26
LUNGS Ratio	MEAN	0.0034	0.0034	0.0035	0.0035
	S.D.	.00032	.00029	.00034	.00030
	N	26	26	26	26
BRAIN Ratio	MEAN	0.0040	0.0040	0.0042	0.0041
	S.D.	.00031	.00036	.00049	.00028
	N	26	26	26	26
SPLEEN Ratio	MEAN	0.0015	0.0014	0.0015	0.0016
	S.D.	.00018	.00017	.00024	.00027
	N	26	26	26	26
KIDNEYS Ratio	MEAN	0.0075	0.0081*	0.0089**	0.0095**
	S.D.	.00052	.00059	.00095	.00101
	N	26	26	26	26
PROSTATE Ratio	MEAN	0.0022	0.0023	0.0024	0.0024
	S.D.	.00042	.00041	.00055	.00049
	N	26	26	26	26
SEM.VES & CO.GL. Ratio	MEAN	0.0035	0.0039	0.0037	0.0039
	S.D.	.00071	.00075	.00078	.00065
	N	26	26	26	26

Statistical key: * = p<0.05 ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

MALES

GROUP DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
ADRENALS Ratio	MEAN	0.0001	0.0001	0.0001	0.0001*
	S.D.	.00001	.00002	.00002	.00001
	N	26	26	26	26
PITUITARY Ratio	MEAN	0.0000	0.0000	0.0000	0.0000
	S.D.	.00001	.00000	.00000	.00000
	N	26	26	26	26
TESTIS - LEFT Ratio	MEAN	0.0031	0.0032	0.0032	0.0032
	S.D.	.00026	.00023	.00046	.00036
	N	26	26	26	26
TESTIS - RIGHT Ratio	MEAN	0.0032	0.0032	0.0032	0.0033
	S.D.	.00028	.00026	.00043	.00038
	N	26	26	26	26
TESTES Ratio	MEAN	0.0063	0.0064	0.0063	0.0065
	S.D.	.00052	.00049	.00086	.00073
	N	26	26	26	26
EPIDIDYMIS LEFT Ratio	MEAN	0.0013	0.0014	0.0014	0.0014
	S.D.	.00012	.00017	.00019	.00025
	N	26	26	26	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.0013	0.0014	0.0014	0.0014
	S.D.	.00013	.00014	.00028	.00013
	N	26	26	26	26
EPIDIDYMIDES Ratio	MEAN	0.0027	0.0028	0.0028	0.0027
	S.D.	.00026	.00029	.00039	.00030
	N	26	26	26	26

Statistical key: * = p<0.05

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

FEMALES

GROUP		I	II	III	IV
DOSE LEVEL(MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	330	333	326	332
	S.D.	23.2	25.5	25.5	22.1
	N	22	25	24	23
LIVER Ratio	MEAN	0.0447	0.0437	0.0442	0.0467
	S.D.	.00453	.00457	.00468	.00590
	N	22	25	24	23
LUNGS Ratio	MEAN	0.0046	0.0046	0.0045	0.0046
	S.D.	.00054	.00032	.00045	.00051
	N	22	25	24	23
BRAIN Ratio	MEAN	0.0060	0.0060	0.0061	0.0059
	S.D.	.00050	.00044	.00042	.00039
	N	22	25	24	23
SPLEEN Ratio	MEAN	0.0018	0.0019	0.0018	0.0017
	S.D.	.00020	.00035	.00021	.00021
	N	22	25	24	23
KIDNEYS Ratio	MEAN	0.0083	0.0084	0.0085	0.0091**
	S.D.	.00087	.00046	.00061	.00103
	N	22	25	24	23
UTERUS/OVIDUCTS Ratio	MEAN	0.0019	0.0018	0.0020	0.0017
	S.D.	.00056	.00062	.00067	.00045
	N	22	25	24	23
ADRENALS Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00003	.00003	.00002	.00002
	N	22	25	24	23

Statistical key: ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

FEMALES

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
PITUITARY Ratio	MEAN	0.0000	0.0000	0.0000	0.0000
	S.D.	.00001	.00001	.00001	.00001
	N	22	25	24	23
OVARY LEFT Ratio	MEAN	0.0002	0.0002	0.0001	0.0002
	S.D.	.00003	.00002	.00003	.00003
	N	22	25	24	23
OVARY RIGHT Ratio	MEAN	0.0002	0.0002	0.0003	0.0002
	S.D.	.00003	.00003	.00053	.00002
	N	22	25	24	23
OVARIES Ratio	MEAN	0.0003	0.0003	0.0004	0.0003
	S.D.	.00005	.00004	.00054	.00005
	N	22	25	24	23
No statistically significant differences					

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

MALES

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
LIVER Ratio	MEAN	8.6898	8.8172	9.0663	10.504**
	S.D.	.87246	.89904	1.0666	1.2898
	N	26	26	26	26
LUNGS Ratio	MEAN	0.8449	0.8486	0.8376	0.8505
	S.D.	.09092	.07556	.07517	.07091
	N	26	26	26	26
SPLEEN Ratio	MEAN	0.3732	0.3567	0.3561	0.3815
	S.D.	.04712	.05134	.05643	.07294
	N	26	26	26	26
KIDNEYS Ratio	MEAN	1.8758	2.0424*	2.1451**	2.3081**
	S.D.	.14639	.19784	.22582	.24277
	N	26	26	26	26
PROSTATE Ratio	MEAN	0.5335	0.5655	0.5730	0.5714
	S.D.	.09584	.09720	.13530	.10419
	N	26	26	26	26
SEM.VES & CO.GL. Ratio	MEAN	0.8628	0.9703	0.8915	0.9493
	S.D.	.18347	.16355	.15681	.13863
	N	26	26	26	26
ADRENALS Ratio	MEAN	0.0272	0.0278	0.0290	0.0298
	S.D.	.00296	.00453	.00506	.00450
	N	26	26	26	26
PITUITARY Ratio	MEAN	0.0058	0.0058	0.0055	0.0057
	S.D.	.00144	.00092	.00113	.00105
	N	26	26	26	26

Statistical key: * = p<0.05 ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

MALES

GROUP DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
TESTIS - LEFT Ratio	MEAN	0.7794	0.7949	0.7558	0.7829
	S.D.	.05984	.07053	.07942	.07017
	N	26	26	26	26
TESTIS - RIGHT Ratio	MEAN	0.7852	0.7984	0.7597	0.7926
	S.D.	.05834	.06944	.07864	.07539
	N	26	26	26	26
TESTES Ratio	MEAN	1.5573	1.5905	1.5140	1.5706
	S.D.	.11070	.13821	.15226	.14367
	N	26	26	26	26
EPIDIDYMIS LEFT Ratio	MEAN	0.3342	0.3494	0.3343	0.3373
	S.D.	.03107	.03789	.03715	.05820
	N	26	26	26	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.3335	0.3478	0.3470	0.3326
	S.D.	.03353	.02507	.06730	.02629
	N	26	26	26	26
EPIDIDYMIDES Ratio	MEAN	0.6656	0.6939	0.6752	0.6674
	S.D.	.06420	.05910	.08271	.06666
	N	26	26	26	26

No statistically significant differences

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

FEMALES

GROUP DOSE LEVEL(MG/M3)		I 0	II 2000	III 10000	IV 20000
LIVER Ratio	MEAN	7.5084	7.3053	7.2627	7.9286
	S.D.	.94603	.95934	.87340	1.1544
	N	22	25	24	23
LUNGS Ratio	MEAN	0.7639	0.7604	0.7461	0.7820
	S.D.	.08726	.05665	.07990	.07071
	N	22	25	24	23
SPLEEN Ratio	MEAN	0.3065	0.3155	0.2929	0.2893
	S.D.	.03743	.05716	.04343	.03144
	N	22	25	24	23
KIDNEYS Ratio	MEAN	1.3890	1.4070	1.3943	1.5440**
	S.D.	.12749	.10792	.06952	.20815
	N	22	25	24	23
UTERUS/OVIDUCTS Ratio	MEAN	0.3086	0.2976	0.3238	0.2899
	S.D.	.08412	.09179	.10850	.07003
	N	22	25	24	23
ADRENALS Ratio	MEAN	0.0378	0.0371	0.0345*	0.0377
	S.D.	.00547	.00524	.00345	.00360
	N	22	25	24	23
PITUITARY Ratio	MEAN	0.0077	0.0077	0.0078	0.0079
	S.D.	.00133	.00117	.00143	.00116
	N	22	25	24	23
OVARY LEFT Ratio	MEAN	0.0269	0.0270	0.0244	0.0275
	S.D.	.00549	.00383	.00485	.00461
	N	22	25	24	23

Statistical key: * = p<0.05 ** = p<0.01

TABLE 21

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

FEMALES

GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
OVARY RIGHT Ratio	MEAN	0.0285	0.0280	0.0429	0.0266
	S.D.	.00538	.00421	.08049	.00356
	N	22	25	24	23
OVARIES Ratio	MEAN	0.0541	0.0547	0.0670	0.0531
	S.D.	.00729	.00530	.08206	.00707
	N	22	25	24	23

No statistically significant differences

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

TABLE 22

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF PUP ORGAN WEIGHT DATA
PUP ORGAN WEIGHTS IN GRAMS

DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
BRAIN	MEAN	1.557	1.533	1.535	1.515
	S.D.	0.0538	0.0541	0.0759	0.0774
	N	22	25	24	23
of Male Pups	MEAN	1.582	1.552	1.559	1.547
	S.D.	0.0629	0.0642	0.0768	0.0897
	N	22	25	24	23
of Female Pups	MEAN	1.532	1.513	1.512	1.483
	S.D.	0.0672	0.0575	0.0904	0.0882
	N	22	25	24	23
SPLEEN	MEAN	0.306	0.313	0.298	0.290
	S.D.	0.0497	0.0410	0.0376	0.0483
	N	22	25	24	23
of Male Pups	MEAN	0.324	0.329	0.315	0.306
	S.D.	0.0500	0.0563	0.0495	0.0451
	N	22	25	24	23
of Female Pups	MEAN	0.288	0.298	0.281	0.275
	S.D.	0.0680	0.0484	0.0379	0.0606
	N	22	25	24	23
THYMUS	MEAN	0.371	0.343	0.360	0.349
	S.D.	0.0404	0.0413	0.0622	0.0581
	N	22	25	24	23
of Male Pups	MEAN	0.359	0.337	0.366	0.360
	S.D.	0.0547	0.0595	0.0730	0.0703
	N	22	25	24	23
of Female Pups	MEAN	0.384	0.350	0.354	0.338
	S.D.	0.0468	0.0503	0.0641	0.0738
	N	22	25	24	23

No statistically significant differences

TABLE 22

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATSSUMMARY OF PUP ORGAN WEIGHT DATA
PUP ORGAN WEIGHT TO BODY WEIGHT RATIO

GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
BRAIN	MEAN	1.969	2.064	2.080	2.077
	S.D.	0.1141	0.1942	0.1979	0.2425
	N	22	25	24	23
of Male Pups	MEAN	1.931	2.022	2.064	2.005
	S.D.	0.1264	0.2175	0.2577	0.2040
	N	22	25	24	23
of Female Pups	MEAN	2.007	2.105	2.097	2.149
	S.D.	0.1472	0.1978	0.1989	0.3085
	N	22	25	24	23
SPLEEN	MEAN	0.385	0.418	0.401	0.393
	S.D.	0.0536	0.0489	0.0415	0.0528
	N	22	25	24	23
of Male Pups	MEAN	0.395	0.424	0.413	0.396
	S.D.	0.0589	0.0589	0.0532	0.0618
	N	22	25	24	23
of Female Pups	MEAN	0.374	0.412	0.388	0.389
	S.D.	0.0702	0.0637	0.0411	0.0546
	N	22	25	24	23
THYMUS	MEAN	0.468	0.459	0.480	0.470
	S.D.	0.0355	0.0345	0.0486	0.0526
	N	22	25	24	23
of Male Pups	MEAN	0.435	0.435	0.475	0.462
	S.D.	0.0480	0.0617	0.0627	0.0696
	N	22	25	24	23
of Female Pups	MEAN	0.500	0.484	0.485	0.478
	S.D.	0.0488	0.0611	0.0569	0.0633
	N	22	25	24	23

No statistically significant differences

	Lesion Incidence Summary with Expanded Severity Levels Preface	Table 23
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Key to Abbreviations

GI	=	Gland
NAD	=	No abnormal diagnoses
Ctls	=	Controls (Group I)
Oviducts/Fallop	=	Oviducts and Fallopian Tubes

Corresponding exposure levels for each group were as follows:

Group 1	-	0 mg/m ³
Group 2	-	2000 mg/m ³
Group 3	-	10000 mg/m ³
Group 4	-	20000 mg/m ³

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Incidence Summary of Microscopic Findings with Severity Levels
All Animals

		-- A n i m a l s --				A f f e c t e d --			
Controls from group(s): 1		-- M a l e s --				-- F e m a l e s --			
Animal sex:		Ctl's				Ctl's			
Dosage group:		2 3 4				2 3 4			
T i s s u e s W i t h D i a g n o s e s		No. in group:				No. in group:			
Adrenal Glands		26	0	0	26	10	0	0	10
CONGESTION									
.....Number examined:		10	0	0	10	10	0	0	10
Nad>		10	0	0	10	10	0	0	8
Minimal>		0	0	0	0	0	0	0	1
Slight>		0	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		0	0	0	0	0	0	0	2
Brain		10	0	0	10	10	0	0	10
.....Number examined:		26	0	0	26				
Coagulating Gl									
SECRETORY PRODUCT: DECREASED									
.....Number examined:		26	0	0	26				
Nad>		25	0	0	24				
Minimal>		1	0	0	0				
Slight>		0	0	0	2				
.....Total Incidence of Finding Observed:		1	0	0	2				
Left Epididymis		0	0	0	1	0	0	0	0
SPERM GRANULOMA									
.....Number examined:		0	0	0	1				
Present>		0	0	0	1	0	0	0	0
.....Total Incidence of Finding Observed:		0	0	0	1	0	0	0	0
Right Epididymis		26	0	0	25				
INTERSTITIAL MONONUCLEAR CELL INFILTRATE									
.....Number examined:		26	0	0	24				
Nad>		26	0	0	24				
Minimal>		0	0	0	1				
.....Total Incidence of Finding Observed:		0	0	0	1				
Kidneys		10	0	0	10	10	0	0	10
CORTEX: PROXIMAL CONVOLUTED TUBULAR									
-EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES									
.....Number examined:		10	0	0	10				
Nad>		10	0	0	0	10	0	0	10
Minimal>		0	0	0	1	0	0	0	0
Slight>		0	0	0	6	0	0	0	0
Moderate>		0	0	0	3	0	0	0	0
.....Total Incidence of Finding Observed:		0	0	0	10	0	0	0	0

All Diagnoses; Phases: All; Death types: All; Date of death range: 10-Dec-01 To 24-Dec-01

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Incidence Summary of Microscopic Findings with Severity Levels
All Animals

		-- Animals --				Affected --			
		-- Males --				-- Females --			
		Ctls	2	3	4	Ctls	2	3	4
Tissues With Diagnoses	No. in group:	26	0	0	26	10	0	0	10
Controls from group(s): 1	Animal sex:								
	Dosage group:								
Kidneys	Number examined:	10	0	0	10	10	0	0	10
CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC									
	Nad>	8	0	0	0	10	0	0	9
	Minimal>	1	0	0	4	0	0	0	1
	Slight>	1	0	0	6	0	0	0	0
.....Total Incidence of Finding Observed:		2	0	0	10	0	0	0	1
CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES									
	Nad>	7	0	0	2	9	0	0	8
	Minimal>	3	0	0	7	1	0	0	2
	Slight>	0	0	0	1	0	0	0	0
.....Total Incidence of Finding Observed:		3	0	0	8	1	0	0	2
CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR -CASTS									
	Nad>	10	0	0	8	10	0	0	10
	Minimal>	0	0	0	2	0	0	0	0
.....Total Incidence of Finding Observed:		0	0	0	2	0	0	0	0
MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL									
	Nad>	10	0	0	5	10	0	0	9
	Minimal>	0	0	0	5	0	0	0	0
	Slight>	0	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		0	0	0	5	0	0	0	1
CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S)									
	Nad>	9	0	0	10	8	0	0	8
	Minimal>	1	0	0	0	2	0	0	1
	Slight>	0	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		1	0	0	0	2	0	0	2

All Diagnoses; Phases: All; Death types: All; Date of death range: 10-Dec-01 To 24-Dec-01

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Incidence Summary of Microscopic Findings with Severity Levels
All Animals

		-- A n i m a l s --				A f f e c t e d --			
Controls from group(s): 1		-- M a l e s --				-- F e m a l e s --			
Animal sex:		Ctl's				Ctl's			
Dosage group:		2 3 4				2 3 4			
T i s s u e s W i t h D i a g n o s e s		No. in group:				No. in group:			
No. in group:		26 0 0 26				10 0 0 10			
Kidneys		Number examined:				Number examined:			
PELVIS: DILATED		10 0 0 10				10 0 0 10			
Nad>		9 0 0 8				10 0 0 9			
Minimal>		0 0 0 0				0 0 0 1			
Slight>		1 0 0 2				0 0 0 0			
.....Total Incidence of Finding Observed:		1 0 0 2				0 0 0 1			
CORTICAL TUBULAR LUMENS: EOSINOPHILIC MATERIAL									
Nad>		10 0 0 10				10 0 0 9			
Slight>		0 0 0 0				0 0 0 1			
.....Total Incidence of Finding Observed:		0 0 0 0				0 0 0 1			
Liver		Number examined:				Number examined:			
MONONUCLEAR CELL INFILTRATES		10 0 0 10				10 0 0 10			
Nad>		9 0 0 7				8 0 0 5			
Minimal>		1 0 0 3				2 0 0 5			
.....Total Incidence of Finding Observed:		1 0 0 3				2 0 0 5			
Lungs		Number examined:				Number examined:			
ALVEOLAR/INTRAALVEOLAR MACROPHAGES		10 0 0 10				10 0 0 10			
Nad>		8 0 0 7				10 0 0 8			
Minimal>		2 0 0 2				0 0 0 2			
Slight>		0 0 0 1				0 0 0 0			
.....Total Incidence of Finding Observed:		2 0 0 3				0 0 0 2			
ATELECTASIS									
Nad>		10 0 0 10				9 0 0 9			
Minimal>		0 0 0 0				1 0 0 0			
Moderate>		0 0 0 0				0 0 0 1			
.....Total Incidence of Finding Observed:		0 0 0 0				1 0 0 1			

All Diagnoses; Phases: All; Death types: All; Date of death range: 10-Dec-01 To 24-Dec-01

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Incidence Summary of Microscopic Findings with Severity Levels
All Animals

		-- A n i m a l s --				A f f e c t e d --			
Controls from group(s): 1		-- M a l e s --				-- F e m a l e s --			
T i s s u e s W i t h D i a g n o s e s		Ctls	2	3	4	Ctls	2	3	4
No. in group:		26	0	0	26	10	0	0	10
Lungs	Number examined:	10	0	0	10	10	0	0	10
OSSEOUS METAPLASIA									
	Nad>	9	0	0	10	10	0	0	10
	Minimal>	1	0	0	0	0	0	0	0
.....Total Incidence of Finding Observed:		1	0	0	0	0	0	0	0
Ovaries	Number examined:					10	0	0	10
Oviducts/Fallop	Number examined:					10	0	0	10
Pituitary gland	Number examined:	10	0	0	10	10	0	0	10
Prostate	Number examined:	26	0	0	26				
Seminal vesicles	Number examined:	26	0	0	26				
SECRETORY PRODUCT: DECREASED									
	Nad>	26	0	0	25				
	Minimal>	0	0	0	1				
.....Total Incidence of Finding Observed:		0	0	0	1				
Skin	Number examined:	1	0	0	0	0	0	0	0
EPITHELIUM: SQUAMOUS CELL HYPERPLASIA									
	Moderate>	1	0	0	0	0	0	0	0
.....Total Incidence of Finding Observed:		1	0	0	0	0	0	0	0
EPITHELIUM: HYPERKERATOSIS									
	Slight>	1	0	0	0	0	0	0	0
.....Total Incidence of Finding Observed:		1	0	0	0	0	0	0	0
EPITHELIUM: ULCER(S)									
	Marked>	1	0	0	0	0	0	0	0
.....Total Incidence of Finding Observed:		1	0	0	0	0	0	0	0

All Diagnoses; Phases: All; Death types: All; Date of death range: 10-Dec-01 To 24-Dec-01

Incidence Summary of Microscopic Findings with Severity Levels
All Animals

Controls from group(s): 1		Animal sex:	-- A n i m a l s --				A f f e c t e d --			
			-- M a l e s --				-- F e m a l e s --			
		Dosage group:	Ctls	2	3	4	Ctls	2	3	4
T i s s u e s W i t h D i a g n o s e s		No. in group:	26	0	0	26	10	0	0	10
Skin		Number examined:	1	0	0	0	0	0	0	0
ABSCESS(ES)										
		Moderate>	1	0	0	0	0	0	0	0
.....Total Incidence of Finding Observed:			1	0	0	0	0	0	0	0
Spleen		Number examined:	10	0	0	10	10	0	0	10
Left testis		Number examined:	0	0	0	1	0	0	0	0
Right Testis		Number examined:	26	0	0	25				
Uterus		Number examined:					10	0	0	10
MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT										
		Nad>					3	0	0	5
		Minimal>					1	0	0	0
		Slight>					6	0	0	5
.....Total Incidence of Finding Observed:							7	0	0	5
LUMEN: DILATED										
		Nad>					9	0	0	8
		Minimal>					1	0	0	1
		Slight>					0	0	0	1
.....Total Incidence of Finding Observed:							1	0	0	2

All Diagnoses; Phases: All; Death types: All; Date of death range: 10-Dec-01 To 24-Dec-01

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1. INTRODUCTION

This appendix presents the methodology for exposure atmosphere generation monitoring and results.

2. MATERIALS AND METHODS

2.1. HUSBANDRY DURING EXPOSURE PERIODS

2.1.1. HOUSING

Animals were individually housed in stainless steel, wire mesh cages within a 1.5 m³ glass and stainless steel whole-body exposure chamber. The placement of the animal in the whole-body exposure chamber was rotated weekly to ensure uniform exposure of the animals. A description of the animal rotation is included in the raw data.

2.1.2. FEED

None was provided during exposure.

2.1.3. WATER

None was provided during exposure.

2.1.4. ENVIRONMENTAL CONDITIONS

Chamber temperature and relative humidity were recorded every half-hour during exposure and maintained, to the maximum extent possible, within the ranges presented below. Excursions outside the specified range did not affect the integrity of the study.

Temperature

Desired: 20 to 24°C
Actual: 20 to 26°C

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Relative Humidity

Desired: 40 to 60%

Actual: 29 to 66%

2.2. TEST SUBSTANCE ADMINISTRATION AND CHAMBER OPERATIONS**2.2.1. ROUTE OF ADMINISTRATION**

Inhalation via whole-body exposures

2.2.2. TEST SUBSTANCE ADMINISTRATION

The test substance was administered as a vapor in the breathing air of the animals. The test atmosphere was generated by an appropriate procedure determined during the pre-study trials. The trials were performed to evaluate the optimal set of conditions and equipment to generate a stable atmosphere at the target exposure levels and maintain uniform conditions throughout the exposure chambers.

2.2.3. JUSTIFICATION FOR ROUTE OF ADMINISTRATION

The inhalation route is one of the potential routes of human exposure to this test substance and is the route specified in the referenced US EPA 79.61 guidelines and US OPPTS 870.3800 guidelines.

2.2.4. TARGET EXPOSURE LEVELSGroup I - 0 mg/m³Group II - 2000 mg/m³Group III - 10000 mg/m³Group IV - 20000 mg/m³

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2.2.5. JUSTIFICATION FOR EXPOSURE LEVEL SELECTION

Exposure levels were selected by the Sponsor, based on results from a 13-week inhalation study conducted at the Testing Facility that utilized this test substance in rats (00-6128). The exposure levels were also selected based on the lower flammability limits of the test substance.

2.2.6. FREQUENCY OF ADMINISTRATION

Frequency

P₀ males and females received 70 consecutive days (ten weeks) of exposure prior to mating for six hours/day. P₀ males and females continued to be exposed daily throughout a 14-day cohabitation period. The mated females continued to be exposed daily from Day 0 through 19 of gestation. Beginning on Day 5 of lactation, nursing P₀ females were exposed daily until weaning of the F₁ offspring on Day 28. P₀ females with no confirmed day of mating continued exposure for 25 days following completion of the mating period. P₀ females with a confirmed day of mating that did not deliver were euthanized on presumed Day 25 of gestation.

P₀ males were exposed daily until euthanasia, which occurred proximate to the date that the last F₁ litters were weaned.

2.2.7. DURATION

The test substance was administered for 6 hours/day during all segments of the study.

2.2.8. EXPOSURE PROCEDURE AND CHAMBER OPERATIONS

Group I

Houseline nitrogen was delivered from a regulator with a backpressure gauge via ¼" tubing to a flowmeter regulated by a metering valve. This nitrogen flow (~ 20 Lpm) was then directed into the turret of the 1.5 m³ glass and stainless steel exposure

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chamber where it was mixed with room air as it was drawn into the chamber. This nitrogen flow simulated the generation nitrogen flow for Groups II, III, and IV.

Groups II, III and IV

Houseline nitrogen was delivered from a regulator with a backpressure gauge through a stainless steel fitting to create three flow systems: the test substance pressurization flow, the purge flow and the volatilization flow.

The nitrogen for the test substance pressurization flow was directed via 1/4" tubing through a metering valve, attached to a backpressure gauge, into the vapor inlet valve of the test substance cylinder. The metering valve was used to adjust and maintain the pressure within the cylinder. From the pressurized cylinder, the test substance flowed from the liquid outlet valve through a quick-disconnect fitting and through a filter to prevent equipment contamination. From the filter, the test substance flowed to a liquid flowmeter via 1/8" tubing. The outlet of the flowmeter was regulated by a built-in metering valve. From this metering valve, the test substance flowed via 1/8" tubing onto the glass helix of a counter current volatilization chamber. The glass helix was heated by a nichrome wire, which was controlled by an autotransformer and was inserted in the center of the glass tube that supported the helix.

The nitrogen for the purge flow system was directed, via 1/4" tubing to a flowmeter regulated by a metering valve. The purge nitrogen was delivered via 1/8" tubing to the bottom of the tube containing the nichrome wire. This nitrogen flow continuously purged the area surrounding the nichrome wire within the tube, thereby protecting the wire from oxidation.

The nitrogen for the volatilization system was directed via 1/4" tubing to a flowmeter regulated by a metering valve. From the flowmeter, the volatilization nitrogen (~ 20 Lpm) flowed via 1/4" tubing to a ball and socket joint at the bottom of the volatilization

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chamber. This nitrogen flowed up through the volatilization chamber passing over the coil and volatilizing the test substance. The pressure within the counter-current volatilization chamber was maintained slightly negative to the room and was monitored with a pressure gauge.

This test substance laden nitrogen exited the top of the volatilization chamber through a glass elbow, which directed the flow, via ½” tubing, to the turret of 1.5 m³ glass and stainless steel exposure chamber. As the test substance laden nitrogen was drawn into the chamber, it was mixed with room air.

The whole-body exposure chambers each had a volume of approximately 1500 Liters (1.5 m³). Each chamber was operated at a minimum flow rate of 300 Liters per minute. The final airflow was set to provide at least one air change (calculated by dividing the chamber volume by the airflow rate) in 5.0 minutes (12 air changes/hour) and a T₉₉ equilibrium time (calculated by multiplying the air change by the exponential factor 4.6) of at most 23 minutes:

Group	Airflow Rate (Lpm)	Air Change (min)	T ₉₉ (min)
I	312	4.8	22
II	309	4.9	23
III	309	4.9	23
IV	309	4.9	23

This chamber size and airflow rate was considered adequate to maintain the oxygen level at least 19% and the animal-loading factor below 5%. Chamber temperature, humidity, airflow rate and static pressure were monitored continuously and recorded every 30 minutes during exposure. At the end of the 6-hour exposure, all animals remained in the chamber for a minimum of 30 minutes. During this time, the chamber was operated at approximately the same flow rate using clean air only. The chambers were exhausted

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through the in-house filtering system, which consisted of a coarse filter, a HEPA filter and activated charcoal.

See Chamber Figures I and II and Table III for equipment details.

2.3. EXPOSURE CONCENTRATION DETERMINATION

2.3.1. NOMINAL CONCENTRATION

A nominal exposure concentration was calculated. The flow of air through the chamber was monitored using appropriate calibrated equipment. The test substance consumed (weight difference of the test substance cylinder) during the exposure (mg) was divided by the total volume of air (m^3) passing through the chamber (volumetric flow rate times total exposure time) to give the nominal concentration (mg/m^3).

2.3.2. CHAMBER SAMPLING

During each exposure, measurements of airborne concentrations were performed in the animals' breathing zone (approximately 20 Lpm) at least 4 times using an appropriate sampling procedure and Infra-Red Spectrophotometric (IR) analytical method. Also, one charcoal tube sample per chamber per week was analyzed by gas chromatography (GC) to characterize at least 10 major components (comprising at least 80% by weight of the test substance) to show test substance stability and comparison between the neat liquid test substance and the vaporized test atmospheres.

See Table III in this appendix for equipment details. See Appendix B for Analytical Report.

2.3.3. PARTICLE SIZE DISTRIBUTION

During each week of exposure, particle size determinations (5 Lpm for 20 seconds) were performed using a TSI Aerodynamic Particle Sizer to characterize the aerodynamic particle size distribution of any aerosol present. The samples were drawn for 20 seconds at a

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flowrate of 5.0Lpm. The mass median aerodynamic diameter, geometric standard deviation, and total mass concentration were calculated based on the amounts of particles collected.

See Table III for equipment details.

2.3.4. CHAMBER AND EXPOSURE ROOM ENVIRONMENT

Chamber oxygen levels (maintained at least 19%) were measured pretest and at the beginning, middle and end of the study.

Air samples were taken in the vapor generation area pretest and at the beginning, middle and end of the study. Light (maintained approximately 30 foot-candles at 1.0 meters above the floor) and noise levels (maintained below 85 decibels) in the exposure room were measured pretest and at the beginning, middle and end of the study.

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Table I
Summary of In-Chamber Observations

Exposure Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table I
Summary of In-Chamber Observations

Exposure Day	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table I
Summary of In-Chamber Observations

Exposure Day	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table I
Summary of In-Chamber Observations

Exposure Day	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

^aDue to oversight, observations were not recorded.

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Table I
Summary of In-Chamber Observations

Exposure Day	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table I
Summary of In-Chamber Observations

Exposure Day	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	^a	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

^aDue to oversight, observations were not recorded.

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Table I
Summary of In-Chamber Observations

Exposure Day	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
Group I – 0 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m ³																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table I
Summary of In-Chamber Observations

Exposure Day	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
Group I – 0 mg/m ³															
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	-	-
Group II – 2,000 mg/m ³															
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	-	-	-	-
Group III – 10000 mg/m ³															
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	-	-	-
Group IV – 20000 mg/m ³															
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.

Note: In-chamber observations are based on all animals present in the exposure chamber at the time, including satellite animals.

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Table II
Chamber Monitoring Records
Preface

Key to Abbreviations

MMAD	=	Mass Median Aerodynamic Diameter
GSD	=	Geometric Standard Deviation
TMC	=	Total Mass Concentration

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (μm)	GSD	TMC (mg/m ³)		
0	22-Aug-01	1	0	0	0	0	0	0	0.8435	1.442	1.67E-03	23	50
1	23-Aug-01	2	0	0	0	0	0	0				23	51
2	24-Aug-01	3	0	0	0	0	0	0				23	51
3	25-Aug-01	4	0	0	0	0	0	0				23	50
4	26-Aug-01	5	0	0	0	0	0	0				23	50
5	27-Aug-01	6	0	0	0	0	0	0				23	44
6	28-Aug-01	7	0	0	0	0	0	0				23	43
7	29-Aug-01	8	0	0	0	0	0	0	0.7992	1.765	7.51E-03	23	49
8	30-Aug-01	9	0	0	0	0	0	0				23	44
9	31-Aug-01	10	0	0	0	0	0	0				23	44
10	1-Sep-01	11	0	0	0	0	0	0				23	43
11	2-Sep-01	12	0	0	0	0	0	0				23	46
12	3-Sep-01	13	0	0	0	0	0	0				23	48
13	4-Sep-01	14	0	0	0	0	0	0				23	47
14	5-Sep-01	15	0	0	0	0	0	0	3.650	1.870	3.89E-03	23	50
15	6-Sep-01	16	0	0	0	0	0	0				24	45
16	7-Sep-01	17	0	0	0	0	0	0				23	50
17	8-Sep-01	18	0	0	0	0	0	0				23	49
18	9-Sep-01	19	0	0	0	0	0	0				23	47
19	10-Sep-01	20	0	0	0	0	0	0				24	48
20	11-Sep-01	21	0	0	0	0	0	0				23	50

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (µm)	GSD	TMC (mg/m ³)		
21	12-Sep-01	22	0	0	0	0	0	0	4.410	2.013	5.31E-03	23	49
22	13-Sep-01	23	0	0	0	0	0	0				23	47
23	14-Sep-01	24	0	0	0	0	0	0				24	45
24	15-Sep-01	25	0	0	0	0	0	0				23	43
25	16-Sep-01	26	0	0	0	0	0	0				24	44
26	17-Sep-01	27	0	0	0	0	0	0				24	45
27	18-Sep-01	28	0	0	0	0	0	0				23	47
28	19-Sep-01	29	0	0	0	0	0	0	5.935	2.525	6.26E-03	23	48
29	20-Sep-01	30	0	0	0	0	0	0				22	55
30	21-Sep-01	31	0	0	0	0	0	0				23	54
31	22-Sep-01	32	0	0	0	0	0	0				23	52
32	23-Sep-01	33	0	0	0	0	0	0				23	49
33	24-Sep-01	34	0	0	0	0	0	0				23	44
34	25-Sep-01	35	0	0	0	0	0	0				23	54
35	26-Sep-01	36	0	0	0	0	0	0	3.890	1.955	5.64E-03	23	44
36	27-Sep-01	37	0	0	0	0	0	0				24	42
37	28-Sep-01	38	0	0	0	0	0	0				24	44
38	29-Sep-01	39	0	0	0	0	0	0				23	46
39	30-Sep-01	40	0	0	0	0	0	0				23	40
40	1-Oct-01	41	0	0	0	0	0	0				22	45
41	2-Oct-01	42	0	0	0	0	0	0				24	44

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean Temperature	Humidity
			Nominal (mg/m ³)	Analytical Chamber Concentration					MMAD (μm)	GSD	TMC (mg/m ³)	(°C)	(%)
				Mean (mg/m ³)	Individual (mg/m ³)								
42	3-Oct-01	43	0	0	0	0	0	0	1.630	2.328	3.53E-03	23	49
43	4-Oct-01	44	0	0	0	0	0	0				22	63
44	5-Oct-01	45	0	0	0	0	0	0				22	49
45	6-Oct-01	46	0	0	0	0	0	0				23	50
46	7-Oct-01	47	0	0	0	0	0	0				23	38
47	8-Oct-01	48	0	0	0	0	0	0				23	37
48	9-Oct-01	49	0	0	0	0	0	0				23	36
49	10-Oct-01	50	0	0	0	0	0	0	4.378	2.125	7.28E-03	24	43
50	11-Oct-01	51	0	0	0	0	0	0				24	45
51	12-Oct-01	52	0	0	0	0	0	0				24	47
52	13-Oct-01	53	0	0	0	0	0	0				23	49
53	14-Oct-01	54	0	0	0	0	0	0				23	51
54	15-Oct-01	55	0	0	0	0	0	0				23	49
55	16-Oct-01	56	0	0	0	0	0	0				23	44
56	17-Oct-01	57	0	0	0	0	0	0	0.9817	1.617	4.40E-04	23	41
57	18-Oct-01	58	0	0	0	0	0	0				24	35
58	19-Oct-01	59	0	0	0	0	0	0				24	37
59	20-Oct-01	60	0	0	0	0	0	0				23	43
60	21-Oct-01	61	0	0	0	0	0	0				23	42
61	22-Oct-01	62	0	0	0	0	0	0				23	46
62	23-Oct-01	63	0	0	0	0	0	0				23	46

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration					Determinations			Temperature	Humidity
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (μm)	GSD	TMC (mg/m ³)	(°C)	(%)
63	24-Oct-01	64	0	0	0	0	0	0	3.678	1.821	1.12E-03	23	52
64	25-Oct-01	65	0	0	0	0	0	0				23	52
65	26-Oct-01	66	0	0	0	0	0	0				23	34
66	27-Oct-01	67	0	0	0	0	0	0				23	42
67	28-Oct-01	68	0	0	0	0	0	0				23	39
68	29-Oct-01	69	0	0	0	0	0	0				23	40
69	30-Oct-01	70	0	0	0	0	0	0				23	43
70	31-Oct-01	71	0	0	0	0	0	0	1.933	2.453	4.98E-03	23	47
71	1-Nov-01	72	0	0	0	0	0	0				23	51
72	2-Nov-01	73	0	0	0	0	0	0				23	63
73	3-Nov-01	74	0	0	0	0	0	0				23	63
74	4-Nov-01	75	0	0	0	0	0	0				23	51
75	5-Nov-01	76	0	0	0	0	0	0				23	46
76	6-Nov-01	77	0	0	0	0	0	0				23	42
77	7-Nov-01	78	0	0	0	0	0	0	0.9040	1.521	7.84E-04	23	47
78	8-Nov-01	79	0	0	0	0	0	0				23	50
79	9-Nov-01	80	0	0	0	0	0	0				24	43
80	10-Nov-01	81	0	0	0	0	0	0				23	44
81	11-Nov-01	82	0	0	0	0	0	0				24	43
82	12-Nov-01	83	0	0	0	0	0	0				23	40
83	13-Nov-01	84	0	0	0	0	0	0				23	41

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (µm)	GSD	TMC (mg/m ³)		
84	14-Nov-01	85	0	0	0	0	0	0	0.8619	2.044	2.87E-03	24	48
85	15-Nov-01	86	0	0	0	0	0	0				24	53
86	16-Nov-01	87	0	0	0	0	0	0				24	53
87	17-Nov-01	88	0	0	0	0	0	0				23	46
88	18-Nov-01	89	0	0	0	0	0	0				24	48
89	19-Nov-01	90	0	0	0	0	0	0				24	48
90	20-Nov-01	91	0	0	0	0	0	0				23	48
91	21-Nov-01	92	0	0	0	0	0	0	1.513	2.260	2.37E-03	23	37
92	22-Nov-01	93	0	0	0	0	0	0				22	38
93	23-Nov-01	94	0	0	0	0	0	0				22	42
94	24-Nov-01	95	0	0	0	0	0	0				22	49
95	25-Nov-01	96	0	0	0	0	0	0				22	54
96	26-Nov-01	97	0	0	0	0	0	0				22	52
97	27-Nov-01	98	0	0	0	0	0	0				22	44
98	28-Nov-01	99	0	0	0	0	0	0	1.188	1.823	2.66E-03	23	54
99	29-Nov-01	100	0	0	0	0	0	0				24	45
100	30-Nov-01	101	0	0	0	0	0	0				24	56
101	1-Dec-01	102	0	0	0	0	0	0				24	55
102	2-Dec-01	103	0	0	0	0	0	0				24	45
103	3-Dec-01	104	0	0	0	0	0	0				24	43
104	4-Dec-01	105	0	0	0	0	0	0				25	45

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Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m ³ (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (µm)	GSD	TMC (mg/m ³)		
105	5-Dec-01	106	0	0	0	0	0	0	0.8534	1.489	1.21E-03	24	48
106	6-Dec-01	107	0	0	0	0	0	0				25	48
107	7-Dec-01	108	0	0	0	0	0	0				24	50
108	8-Dec-01	109	0	0	0	0	0	0				25	38
109	9-Dec-01	110	0	0	0	0	0	0				25	43
110	10-Dec-01	111	0	0	0	0	0	0				23	42
111	11-Dec-01	112	0	0	0	0	0	0	0.7663	1.903	8.56E-03	22	46
112	12-Dec-01	113	0	0	0	0	0	0				22	42
113	13-Dec-01	114	0	0	0	0	0	0				22	45
114	14-Dec-01	115	0	0	0	0	0	0				22	49
115	15-Dec-01	116	0	0	0	0	0	0				22	39
116	16-Dec-01	117	0	0	0	0	0	0				21	37
117	17-Dec-01	118	0	0	0	0	0	0	1.503	1.578	4.69E-04	22	42
118	18-Dec-01	119	0	0	0	0	0	0				22	45
119	19-Dec-01	120	0	0	0	0	0	0				22	38
120	20-Dec-01	121	0	0	0	0	0	0				22	40
121	21-Dec-01	122	0	0	0	0	0	0				21	39
122	22-Dec-01	123	0	0	0	0	0	0				21	35
123	23-Dec-01	124	0	0	0	0	0	0				20	35
124	24-Dec-01	125	0	0	0	0	0	0				21	39
Mean			0		0				2.921	1.992	4.33E-03	23.1	46.4
S.D.			0		0				1.752	0.342	2.43E-03	0.5	4.8

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Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)					MMAD (µm)	GSD		
0	22-Aug-01	1	2220	2073	2370	2270	2000	1650	0.8689	1.880	3.81E-03	23	49
1	23-Aug-01	2	2320	1958	2500	1110	2170	2050				24	51
2	24-Aug-01	3	2370	2055	1720	2190	2180	2130				23	51
3	25-Aug-01	4	2360	2250	2080	2400	2400	2120				24	49
4	26-Aug-01	5	2370	2060	1600	2230	2290	2120				24	49
5	27-Aug-01	6	2420	2113	2250	2130	2240	1830				24	43
6	28-Aug-01	7	2330	1958	1650	2250	2260	1670				24	43
7	29-Aug-01	8	2100	1768	1640	1650	1840	1940				24	48
8	30-Aug-01	9	2230	1920	1810	1890	2050	1930	0.7886	1.421	7.43E-03	24	43
9	31-Aug-01	10	2450	2035	1810	1870	2260	2200				24	43
10	1-Sep-01	11	2530	2268	2020	2400	2510	2140				24	43
11	2-Sep-01	12	2250	2155	1780	1920	2620	2300				24	46
12	3-Sep-01	13	2390	2163	1880	2210	1950	2610				24	47
13	4-Sep-01	14	2290	2008	1650	1880	2170	2330				24	48
14	5-Sep-01	15	2420	2050	1770	1890	2400	2140				24	48
15	6-Sep-01	16	2380	2140	1730	2500	2310	2020				24	45
16	7-Sep-01	17	2140	1890	1630	1730	1900	2300	6.184	2.469	3.49E-03	24	48
17	8-Sep-01	18	2300	2160	1820	2160	2290	2370				24	50
18	9-Sep-01	19	2270	2215	2030	2320	2160	2350				24	48
19	10-Sep-01	20	2160	2010	1890	1950	2110	2080				24	48
20	11-Sep-01	21	2130	2125	1950	2030	2000	2500				24	51

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TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Temperature	Humidity
			Nominal (mg/m ³)	Analytical Chamber Concentration					MMAD (μm)	GSD	TMC (mg/m ³)	Mean	
	Mean (mg/m ³)	Individual (mg/m ³)											
21	12-Sep-01	22	2210	1995	1830	2000	2120	2030	2.985	2.106	3.43E-03	24	49
22	13-Sep-01	23	2500	2360	2010	2060	2720	2640				24	48
23	14-Sep-01	24	1520	1873	1720	1790	2030	1950				24	45
24	15-Sep-01	25	2050	2120	2480	1640	2220	2140				24	43
25	16-Sep-01	26	2200	2015	1840	2350	1890	1980				24	44
26	17-Sep-01	27	2400	2085	1830	1720	2400	2390				24	45
27	18-Sep-01	28	2510	2260	1770	2590	2400	2280				24	48
28	19-Sep-01	29	2400	2100	1810	1940	2340	2310	4.872	2.182	7.43E-03	24	46
29	20-Sep-01	30	3030	1788	1830	1810	1790	1720				24	52
30	21-Sep-01	31	2820	1928	1790	1850	1980	2090				24	54
31	22-Sep-01	32	2230	2020	1900	2090	2040	2050				24	53
32	23-Sep-01	33	2210	2030	1900	1970	2120	2130				24	51
33	24-Sep-01	34	2350	1930	1720	1970	2050	1980				24	43
34	25-Sep-01	35	2310	2095	2140	2040	2120	2080				24	53
35	26-Sep-01	36	2470	2018	2060	2080	1960	1970	2.195	1.844	1.36E-03	24	42
36	27-Sep-01	37	3470	1918	1820	1850	1830	2170				25	41
37	28-Sep-01	38	2020	2080	2300	2100	2020	1910				24	43
38	29-Sep-01	39	1980	1995	2080	1920	2000	1980				24	46
39	30-Sep-01	40	1950	2070	2070	2150	2040	2020				24	41
40	1-Oct-01	41	2210	2075	2200	1920	1990	2190				24	43
41	2-Oct-01	42	1920	1980	1870	2100	1990	1960				24	44

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Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean	
			Nominal	Analytical Chamber Concentration					Temperature	Humidity			
(mg/m³)	Mean (mg/m³)	Individual (mg/m³)			MMAD (µm)	GSD	TMC (mg/m³)	(°C)	(%)				
42	3-Oct-01	43	2060	1985	1920	2040	2000	1980	2.213	2.158	4.64E-03	24	48
43	4-Oct-01	44	2080	2035	2090	2070	2000	1980				23	66
44	5-Oct-01	45	2140	2223	1950	2030	2620	2290				24	48
45	6-Oct-01	46	2240	2138	1920	1850	2380	2400				24	50
46	7-Oct-01	47	1900	1900	1830	1820	1890	2060				24	38
47	8-Oct-01	48	2140	2110	1820	2000	2820	1800				24	37
48	9-Oct-01	49	1990	2185	1840	1850	2900	2150				24	36
49	10-Oct-01	50	1950	2013	2020	2010	1950	2070	5.480	2.276	1.10E-02	24	40
50	11-Oct-01	51	1920	1985	2040	1970	2010	1920				24	45
51	12-Oct-01	52	2050	2080	1700	2370	2140	2110				25	46
52	13-Oct-01	53	2110	2075	2000	2150	2090	2060				24	49
53	14-Oct-01	54	2140	2245	2120	2070	2390	2400				a	a
54	15-Oct-01	55	2110	2315	2140	2550	2630	1940				24	49
55	16-Oct-01	56	2030	2143	1870	2330	2180	2190				24	43
56	17-Oct-01	57	2270	2153	1730	2310	2190	2380	1.138	1.799	6.55E-04	24	40
57	18-Oct-01	58	1980	1935	1940	1900	1990	1910				25	36
58	19-Oct-01	59	2570	2223	2530	2200	2100	2060				25	37
59	20-Oct-01	60	1940	2010	1960	1960	2080	2040				24	43
60	21-Oct-01	61	2230	2235	2830	1910	2110	2090				24	42
61	22-Oct-01	62	2350	2318	2460	2310	2260	2240				24	45
62	23-Oct-01	63	2130	1963	1990	1850	2100	1910				24	46

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Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean	
			Nominal	Analytical Chamber Concentration					Temperature	Humidity			
(mg/m ³)	Mean (mg/m ³)	Individual (mg/m ³)			MMAD (µm)	GSD	TMC (mg/m ³)	(°C)	(%)				
63	24-Oct-01	64	2120	2033	1660	2130	2180	2160	2.884	1.967	9.19E-04	24	50
64	25-Oct-01	65	2180	2145	2150	2100	2220	2110				24	51
65	26-Oct-01	66	2010	2108	2560	1940	1910	2020				24	34
66	27-Oct-01	67	2090	2075	2090	2030	2100	2080				24	41
67	28-Oct-01	68	2100	2138	2260	1880	2130	2280				24	39
68	29-Oct-01	69	2080	2115	2410	2040	1830	2180				24	40
69	30-Oct-01	70	2050	2075	2110	2090	2270	1830				24	42
70	31-Oct-01	71	2020	1980	2080	2100	2110	1630	7.011	3.128	1.42E-02	24	46
71	1-Nov-01	72	2130	2143	2160	2050	2150	2210				24	49
72	2-Nov-01	73	2050	1983	2180	1380	2170	2200				24	63
73	3-Nov-01	74	2360	2105	2390	2030	1990	2010				24	63
74	4-Nov-01	75	2020	2085	1850	2260	1970	2260				24	50
75	5-Nov-01	76	2130	2118	1700	2110	2110	2550				24	46
76	6-Nov-01	77	1840	1863	1800	1790	1890	1970				24	42
77	7-Nov-01	78	1940	1990	1940	2110	1950	1960	0.9573	1.746	8.68E-04	24	46
78	8-Nov-01	79	2110	2243	2390	2090	2220	2270				24	49
79	9-Nov-01	80	2120	2185	2200	2210	2390	1940				24	43
80	10-Nov-01	81	2250	2048	2260	2000	1900	2030				24	42
81	11-Nov-01	82	1640	1955	2000	1960	1850	2010				24	41
82	12-Nov-01	83	1640	1783	1720	1840	1790	1780				24	41
83	13-Nov-01	84	1780	1990	1890	1990	1980	2100				24	41

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Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Temperature	Humidity
			Nominal (mg/m³)	Analytical Chamber Concentration					MMAD (µm)	GSD	TMC (mg/m³)	Mean	
Mean (mg/m³)	Individual (mg/m³)				Temperature (°C)	Humidity (%)							
84	14-Nov-01	85	1840	1908	1800	1890	1960	1980	0.7491	1.504	2.19E-03	25	48
85	15-Nov-01	86	1950	2010	2070	2010	1990	1970				25	51
86	16-Nov-01	87	1900	1978	1930	1920	2060	2000				24	51
87	17-Nov-01	88	2010	2103	1850	2500	2060	2000				24	46
88	18-Nov-01	89	1820	1898	1220	1910	1960	2310				24	47
89	19-Nov-01	90	2140	2108	1990	1950	1940	2550				24	50
90	20-Nov-01	91	2140	2253	1900	2350	2500	2260				24	47
91	21-Nov-01	92	1760	1830	1810	1890	1800	1820				23	37
92	22-Nov-01	93	2010	1943	1770	2010	1980	2010				23	37
93	23-Nov-01	94	2050	2133	1920	2160	2470	1980	0.8027	1.618	1.51E-03	23	41
94	24-Nov-01	95	2130	2133	1840	2230	2380	2080				23	47
95	25-Nov-01	96	1790	1743	1540	1920	1840	1670				23	53
96	26-Nov-01	97	2220	2208	1810	2230	2400	2390				23	51
97	27-Nov-01	98	2670	2183	2340	2360	2070	1960				23	44
98	28-Nov-01	99	2160	2015	2300	1840	2050	1870				24	53
99	29-Nov-01	100	1990	2068	2440	1990	2000	1840				25	47
100	30-Nov-01	101	2030	2045	1980	1890	2200	2110	0.8405	1.616	1.96E-03	25	57
101	1-Dec-01	102	1720	1913	2200	1760	1940	1750				25	59
102	2-Dec-01	103	2090	2145	2090	2240	2200	2050				25	48
103	3-Dec-01	104	2070	2143	2160	2100	2130	2180				25	45
104	4-Dec-01	105	2080	2093	2050	2020	2010	2290				26	45

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION
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TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group II - 2000 mg/m ³													
Day	Date	Exposure Number							Particle Size			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration					Determinations			Mean	
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (μm)	GSD	TMC (mg/m ³)	Temperature (°C)	Humidity (%)
105	5-Dec-01	106	2000	2115	2140	2100	2230	1990	0.8219	1.564	1.26E-03	26	49
106	6-Dec-01	107	1930	2125	1360	2360	2280	2500				26	48
107	7-Dec-01	108	1820	1825	1760	1760	1910	1870				26	49
108	8-Dec-01	109	1900	1993	1910	2070	2000	1990				26	39
109	9-Dec-01	110	1950	1908	1790	1900	1950	1990				26	43
110	10-Dec-01	111	1860	1918	1910	1960	1920	1880				23	41
111	11-Dec-01	112	1970	2013	1870	1960	1950	2270				23	45
112	12-Dec-01	113	1900	2028	2280	2330	1500	2000	0.7556	1.420	6.33E-03	23	43
113	13-Dec-01	114	2040	1988	2050	1920	2010	1970				23	45
114	14-Dec-01	115	2110	2100	1960	1880	2210	2350				23	48
115	15-Dec-01	116	1900	1905	1860	1890	1990	1880				23	38
116	16-Dec-01	117	1970	2038	2090	1930	2090	2040				22	39
117	17-Dec-01	118	2070	1953	2100	1680	1610	2420				23	42
118	18-Dec-01	119	2240	2545	2810	2310	2480	2580				23	45
119	19-Dec-01	120	1650	1703	1450	1790	1740	1830	1.807	1.690	6.17E-04	23	37
120	20-Dec-01	121	1750	1765	1540	1760	1840	1920				22	39
121	21-Dec-01	122	1820	1950	1930	2000	1960	1910				22	38
122	22-Dec-01	123	1900	2065	2030	1870	2240	2120				21	36
Mean			2213		2060				3.329	2.112	5.31E-03	24.0	46.0
S.D.			264		240				2.211	0.438	4.32E-03	0.3	5.0

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TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m³)	Individual (mg/m³)				MMAD (µm)	GSD	TMC (mg/m³)		
0	22-Aug-01	1	10000	10560	11900	10100	10300	9950	0.8184	1.431	2.14E-03	24	46
1	23-Aug-01	2	10200	10480	10400	10400	10400	10700				23	49
2	24-Aug-01	3	9810	10090	11200	9950	8920	10300				24	48
3	25-Aug-01	4	9960	10080	9950	9910	11100	9340				24	47
4	26-Aug-01	5	10200	10530	10100	10500	9910	11600				24	44
5	27-Aug-01	6	10100	10260	9370	9880	10800	11000				24	41
6	28-Aug-01	7	10200	10150	11000	9880	10000	9700				24	40
7	29-Aug-01	8	10100	10150	10700	9950	9950	9990	0.8250	2.158	9.10E-03	24	46
8	30-Aug-01	9	10200	10600	10800	10400	10300	10900				24	41
9	31-Aug-01	10	9970	9885	10100	9300	10300	9840				24	40
10	1-Sep-01	11	10000	10200	10100	10200	10600	9910				24	40
11	2-Sep-01	12	10100	10090	9630	10600	10200	9910				24	43
12	3-Sep-01	13	9650	10320	11000	9880	11000	9410				24	45
13	4-Sep-01	14	9870	9793	9770	9660	9140	10600				24	45
14	5-Sep-01	15	10200	9953	9340	9370	10600	10500	1.914	1.873	1.13E-03	24	46
15	6-Sep-01	16	9960	9715	9700	9910	9520	9730				24	43
16	7-Sep-01	17	10200	9768	9770	10300	9950	9050				24	44
17	8-Sep-01	18	10300	10360	11200	9730	10500	10000				24	46
18	9-Sep-01	19	10000	10190	10700	9990	10100	9950				24	45
19	10-Sep-01	20	10000	10500	11000	10700	10300	10100				24	45
20	11-Sep-01	21	10500	11100	10500	11600	12000	10400				24	48

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Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (μm)	GSD	TMC (mg/m ³)		
21	12-Sep-01	22	9870	10650	11200	10500	10900	10000	5.796	2.302	2.31E-03	24	46
22	13-Sep-01	23	10400	11000	11100	11000	11000	10800				24	43
23	14-Sep-01	24	8830	10280	10100	10200	10500	10300				24	42
24	15-Sep-01	25	9300	10190	10500	10800	10100	9340				24	41
25	16-Sep-01	26	11300	10250	10300	10300	10100	10300				24	42
26	17-Sep-01	27	10300	10830	11600	11100	10200	10400				24	43
27	18-Sep-01	28	10200	10530	10900	10400	10900	9910				24	45
28	19-Sep-01	29	10200	10330	11400	9590	9910	10400				24	45
29	20-Sep-01	30	10600	10780	10400	11100	10900	10700	1.372	1.940	2.33E-03	24	48
30	21-Sep-01	31	10300	10240	10100	10300	9550	11000				24	51
31	22-Sep-01	32	10200	10500	10700	10400	10400	10500				24	49
32	23-Sep-01	33	10100	10350	10600	10300	10200	10300				24	47
33	24-Sep-01	34	10400	10730	11600	10500	10400	10400				24	42
34	25-Sep-01	35	10200	10140	10600	9910	9730	10300				24	50
35	26-Sep-01	36	10600	10680	11100	10800	10700	10100				24	39
36	27-Sep-01	37	11100	10900	10500	11000	11100	11000				24	40
37	28-Sep-01	38	11100	9900	9600	10000	10100	9900	9.375	1.908	6.82E-03	24	41
38	29-Sep-01	39	11100	10060	10200	10000	9750	10300				24	43
39	30-Sep-01	40	11200	10450	10500	10400	10500	10400				24	38
40	1-Oct-01	41	10900	9398	9480	8900	9840	9398				25	41
41	2-Oct-01	42	11200	10480	9930	10900	10700	10400				24	43

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TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Temperature	Humidity
			Nominal (mg/m ³)	Analytical Chamber Concentration					MMAD (μm)	GSD	TMC (mg/m ³)	Mean (°C)	
	Mean (mg/m ³)	Individual (mg/m ³)											
42	3-Oct-01	43	11000	10280	10500	10300	10200	10100	11.59	2.686	1.29E-02	24	45
43	4-Oct-01	44	11000	10030	10100	10000	9930	10100				24	45
44	5-Oct-01	45	11100	10220	10300	9370	10600	10600				24	44
45	6-Oct-01	46	11100	10130	10400	10300	9990	9840				24	48
46	7-Oct-01	47	10800	9970	9340	10600	10100	9840				24	35
47	8-Oct-01	48	11000	9880	10200	9450	9870	10000				24	35
48	9-Oct-01	49	11000	10230	10300	10200	10200	10200				24	34
49	10-Oct-01	50	11100	10280	10300	10300	10300	10200	7.302	2.584	6.48E-03	24	38
50	11-Oct-01	51	10800	10120	10200	10000	9960	10300				24	43
51	12-Oct-01	52	11200	10240	10200	9930	10900	9930				24	45
52	13-Oct-01	53	10800	9980	10000	9660	10300	9960				24	45
53	14-Oct-01	54	11400	10330	10300	10300	10400	10300				24	47
54	15-Oct-01	55	11100	9788	9660	9720	9370	10400				24	44
55	16-Oct-01	56	11300	10400	9900	10600	10600	10500				24	40
56	17-Oct-01	57	11000	9708	9370	9570	10200	9690	7.822	1.922	5.00E-03	24	37
57	18-Oct-01	58	11100	10110	10000	10100	9720	10600				24	33
58	19-Oct-01	59	11200	10150	9390	10200	10700	10300				24	34
59	20-Oct-01	60	11200	10290	9930	9810	10800	10600				24	40
60	21-Oct-01	61	11500	10580	10800	10600	10600	10300				24	39
61	22-Oct-01	62	10900	10340	9660	10600	10700	10400				24	43
62	23-Oct-01	63	11000	9963	9930	8720	10600	10600					

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Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean Temperature	Humidity
			Nominal (mg/m ³)	Analytical Chamber Concentration					MMAD (µm)	GSD	TMC (mg/m ³)	(°C)	(%)
				Mean (mg/m ³)	Individual (mg/m ³)								
63	24-Oct-01	64	10500	10210	12000	9070	9810	9600	3.090	2.324	1.19E-03	24	48
64	25-Oct-01	65	10800	9983	9840	10300	9690	10100				a	a
65	26-Oct-01	66	11200	10110	9630	10200	10300	10300				24	32
66	27-Oct-01	67	11100	10370	11300	10100	10100	9960				24	40
67	28-Oct-01	68	10800	9958	10100	9810	9720	10200				24	38
68	29-Oct-01	69	10900	10350	10400	10500	10000	10500				24	37
69	30-Oct-01	70	10900	10170	9990	10300	10000	10400				24	41
70	31-Oct-01	71	11000	10120	10200	10100	10200	9960	0.8781	1.989	3.33E-03	24	44
71	1-Nov-01	72	10900	9928	9450	10100	10200	9960				24	47
72	2-Nov-01	73	11100	9958	9930	10100	9840	9960				24	60
73	3-Nov-01	74	11100	10040	9930	10000	9930	10300				23	61
74	4-Nov-01	75	11100	10040	9750	10400	10200	9810				24	47
75	5-Nov-01	76	10800	10060	10100	9690	9960	10500				24	44
76	6-Nov-01	77	10900	10110	10300	10300	10000	9840				24	39
77	7-Nov-01	78	10600	10010	10200	9840	10000	10000	0.8427	1.987	1.12E-03	24	44
78	8-Nov-01	79	10800	10150	10300	9990	10100	10200				24	46
79	9-Nov-01	80	10900	9995	10200	10100	9960	9720				24	40
80	10-Nov-01	81	10500	9865	9810	10300	9250	10100				24	37
81	11-Nov-01	82	10800	9843	9570	9960	9840	10000				24	38
82	12-Nov-01	83	10300	9685	10000	9750	9600	9390				24	38
83	13-Nov-01	84	10600	10040	10000	10200	10000	9960				24	38

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION
WHOLE-BODY INHALATION REPRODUCTION
TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)			MMAD (µm)	GSD	TMC (mg/m ³)			
84	14-Nov-01	85	10700	10010	10300	10100	9810	9840	0.8398	2.146	2.81E-03	24	46
85	15-Nov-01	86	10600	9838	9750	9600	10000	10000				24	51
86	16-Nov-01	87	10400	9833	10000	9280	10300	9750				24	50
87	17-Nov-01	88	10800	9893	10100	9960	10000	9510				24	43
88	18-Nov-01	89	10600	10020	9990	10000	10100	10000				25	43
89	19-Nov-01	90	10800	9915	10100	9720	10000	9840				25	47
90	20-Nov-01	91	10800	9808	9450	9810	9870	10100	3.588	2.062	1.30E-02	24	44
91	21-Nov-01	92	10600	9880	9930	10000	9600	9990				23	33
92	22-Nov-01	93	11000	10310	9720	10500	10500	10500				23	35
93	23-Nov-01	94	10600	10060	9720	10200	10300	10000				23	40
94	24-Nov-01	95	10500	9735	9280	10000	10000	9660				23	46
95	25-Nov-01	96	10900	10060	10000	9930	9990	10300				23	51
96	26-Nov-01	97	10400	9770	10200	10000	9510	9370	0.7876	1.640	1.75E-03	23	48
97	27-Nov-01	98	11600	10100	10300	9990	10000	10100				23	42
98	28-Nov-01	99	10800	10140	9750	9810	10000	11000				24	50
99	29-Nov-01	100	10700	9963	10000	9750	10000	10100				25	44
100	30-Nov-01	101	10100	9643	8780	9870	9990	9930				25	53
101	1-Dec-01	102	10800	9775	8870	10300	10000	9930				25	54
102	2-Dec-01	103	10400	9808	9450	9960	10100	9720				25	46
103	3-Dec-01	104	10600	9723	9900	9510	9280	10200				25	41
104	4-Dec-01	105	11200	10580	10600	10800	10400	10500				26	43

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION
WHOLE-BODY INHALATION REPRODUCTION
TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group III - 10000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (µm)	GSD	TMC (mg/m ³)		
105	5-Dec-01	106	11000	10260	9840	10400	10300	10500	0.8739	1.867	1.72E-03	26	46
106	6-Dec-01	107	11300	10600	10400	10900	10500	10600				26	47
107	7-Dec-01	108	10700	9968	9510	9660	10300	10400				26	46
108	8-Dec-01	109	11200	10100	10300	9690	10000	10400				26	35
109	9-Dec-01	110	10800	9650	9900	9370	9370	9960				26	40
110	10-Dec-01	111	10900	9910	9570	9570	10100	10400				23	40
111	11-Dec-01	112	11200	10250	10100	10300	10400	10200				23	44
112	12-Dec-01	113	11100	10200	10000	9900	10500	10400	0.8255	2.723	1.15E-02	23	40
113	13-Dec-01	114	11100	10390	10900	9960	10200	10500				23	43
114	14-Dec-01	115	11200	10400	10800	10000	10600	10200				23	45
115	15-Dec-01	116	11200	10310	9720	10400	10800	10300				23	37
116	16-Dec-01	117	10900	9868	10000	9070	10000	10400				22	37
117	17-Dec-01	118	11200	10430	10600	10200	10400	10500				23	39
118	18-Dec-01	119	10900	10250	10100	10300	10100	10500				23	43
119	19-Dec-01	120	10900	10350	10300	10300	10200	10600	1.923	2.047	6.57E-04	23	36
120	20-Dec-01	121	11000	10060	10300	9780	10200	9960				22	37
121	21-Dec-01	122	11100	9808	9600	10100	9750	9780				22	36
122	22-Dec-01	123	11300	10080	9900	10200	10100	10100				21	34
123	23-Dec-01	124	10900	9880	8520	10600	10100	10300				20	33
Mean			10600		10500				4.617	2.102	4.79E-03	24.0	43.0
S.D.			541		516				3.913	0.357	3.73E-03	0.2	4.1

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION
WHOLE-BODY INHALATION REPRODUCTION
TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)				MMAD (μm)	GSD	TMC (mg/m ³)		
0	22-Aug-01	1	19800	20880	21500	21100	20600	20300	0.8627	2.117	3.32E-03	24	44
1	23-Aug-01	2	19500	20580	18700	21100	20900	21600				23	46
2	24-Aug-01	3	18500	20730	21600	19400	21700	20200				23	46
3	25-Aug-01	4	18600	20130	20400	20300	20100	19700				24	45
4	26-Aug-01	5	19100	20300	20200	19100	21300	20600				24	43
5	27-Aug-01	6	19300	20280	20100	19600	20000	21400				24	39
6	28-Aug-01	7	18900	19980	21400	18700	20200	19600				24	38
7	29-Aug-01	8	19100	20150	20600	19500	20500	20000				24	45
8	30-Aug-01	9	18900	20980	20800	20700	20800	21600	0.8123	2.034	1.28E-02	24	38
9	31-Aug-01	10	19600	20600	21500	20300	20400	20200				24	39
10	1-Sep-01	11	19400	19880	16600	21700	20700	20500				24	38
11	2-Sep-01	12	18700	20480	21500	20800	19200	20400				24	42
12	3-Sep-01	13	19400	20130	19700	20700	20300	19800				24	44
13	4-Sep-01	14	20000	20950	21900	21400	19700	20800				24	43
14	5-Sep-01	15	19200	20430	19400	20500	21600	20200				24	45
15	6-Sep-01	16	19400	20450	20100	20900	20300	20500				2.754	1.995
16	7-Sep-01	17	19000	20580	22000	22400	18700	19200	24	43			
17	8-Sep-01	18	18700	20200	19700	21400	21000	18700	24	45			
18	9-Sep-01	19	19900	19680	21400	19100	17700	20500	24	44			
19	10-Sep-01	20	19700	21600	22000	22200	20900	21400	24	43			
20	11-Sep-01	21	19400	21300	21200	21400	21200	21400	24	47			

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION
WHOLE-BODY INHALATION REPRODUCTION
TOXICITY STUDY IN RATS

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean Temperature	Humidity
			Nominal (mg/m³)	Analytical Chamber Concentration					MMAD (µm)	GSD	TMC (mg/m³)	(°C)	(%)
				Mean (mg/m³)	Individual (mg/m³)								
21	12-Sep-01	22	18500	21150	21100	21500	21100	20900	2.478	2.156	1.64E-03	24	45
22	13-Sep-01	23	19000	21000	20800	21200	21100	21000				24	43
23	14-Sep-01	24	18600	21230	21000	21600	21300	21000				24	42
24	15-Sep-01	25	17100	20730	21200	21900	20200	19600				24	38
25	16-Sep-01	26	18900	21430	20600	21400	22200	21500				24	41
26	17-Sep-01	27	18200	20450	21000	20600	20000	20200				24	42
27	18-Sep-01	28	17900	20550	19600	21200	21900	19500				24	43
28	19-Sep-01	29	18500	20400	19000	20000	21900	20700	1.102	2.199	2.03E-03	24	44
29	20-Sep-01	30	16200	17730	18700	16400	17100	18700				24	48
30	21-Sep-01	31	18400	19850	19400	18500	20900	20600				24	48
31	22-Sep-01	32	18600	20180	20100	19300	20700	20600				24	47
32	23-Sep-01	33	18800	20330	21400	20100	19900	19900				24	46
33	24-Sep-01	34	18400	19380	16800	18800	21400	20500				24	38
34	25-Sep-01	35	19000	21130	21300	21400	21600	20200				24	49
35	26-Sep-01	36	18500	21230	19300	22500	22000	21100	4.738	2.052	1.54E-03	24	39
36	27-Sep-01	37	20700	21230	21800	21100	21300	20700				24	39
37	28-Sep-01	38	21200	20950	18600	22500	21900	20800				24	40
38	29-Sep-01	39	20400	21000	21900	21200	20700	20200				24	43
39	30-Sep-01	40	19700	20830	22900	20000	20400	20000				24	36
40	1-Oct-01	41	20200	20550	20400	20800	19000	22000				24	40
41	2-Oct-01	42	20600	21130	23000	20900	20600	20000				24	42

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Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m ³)	Analytical Chamber Concentration								Temperature (°C)	Humidity (%)
				Mean (mg/m ³)	Individual (mg/m ³)			MMAD (µm)	GSD	TMC (mg/m ³)			
42	3-Oct-01	43	19600	20230	21200	19300	19300	21100	0.8592	2.096	3.29E-03	24	44
43	4-Oct-01	44	20300	20800	20700	20500	20700	21300				23	48
44	5-Oct-01	45	20000	19900	19200	20000	20800	19600				24	44
45	6-Oct-01	46	20100	20380	21200	18600	20800	20900				24	46
46	7-Oct-01	47	19100	19400	19700	19300	19400	19200				24	34
47	8-Oct-01	48	19200	19700	19400	22200	18000	19200				24	33
48	9-Oct-01	49	19700	19730	17400	20500	20000	21000				24	33
49	10-Oct-01	50	20100	20400	19300	21500	20500	20300	11.75	3.002	5.41E-03	24	37
50	11-Oct-01	51	19500	20480	20900	20500	20300	20200				24	42
51	12-Oct-01	52	19900	20100	20300	20200	20100	19800				24	43
52	13-Oct-01	53	20200	20830	16000	23700	22100	21500				24	45
53	14-Oct-01	54	20200	21000	20900	18600	22900	21600				24	45
54	15-Oct-01	55	19600	20830	20500	19000	21400	22400				24	44
55	16-Oct-01	56	19400	19400	19300	19400	20100	18800				24	39
56	17-Oct-01	57	20700	20450	19200	20300	21100	21200	1.259	1.739	7.06E-04	24	36
57	18-Oct-01	58	19300	19850	20800	19800	19400	19400				24	33
58	19-Oct-01	59	20000	19680	18000	22700	17200	20800				24	34
59	20-Oct-01	60	19500	22030	21500	21900	23300	21400				24	38
60	21-Oct-01	61	19300	20200	19300	20300	20600	20600				24	39
61	22-Oct-01	62	19100	20430	22000	20100	19800	19800				24	42
62	23-Oct-01	63	19000	19800	18900	20700	19000	20600					

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Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m ³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Mean Temperature	Humidity
			Nominal (mg/m ³)	Analytical Chamber Concentration					MMAD (μm)	GSD	TMC (mg/m ³)	(°C)	(%)
				Mean (mg/m ³)	Individual (mg/m ³)								
63	24-Oct-01	64	20200	21150	21100	20000	21100	22400	2.378	1.989	6.30E-04	24	47
64	25-Oct-01	65	19500	20930	20300	20500	23600	19300				24	47
65	26-Oct-01	66	19600	20250	19000	18900	22100	21000				24	30
66	27-Oct-01	67	20000	20730	21200	19900	19700	22100				24	38
67	28-Oct-01	68	20800	20700	21200	20700	20700	20200				23	35
68	29-Oct-01	69	19100	20100	21200	20500	19400	19300				24	36
69	30-Oct-01	70	19300	20850	21200	20900	21000	20300				24	40
70	31-Oct-01	71	20700	21400	22400	21100	21200	20900	0.9184	2.580	4.22E-03	24	43
71	1-Nov-01	72	20100	20480	21800	21300	19200	19600				24	46
72	2-Nov-01	73	19300	20130	20200	19900	19200	21200				24	66
73	3-Nov-01	74	21600	21300	21800	21200	21100	21100				24	56
74	4-Nov-01	75	20500	20880	20800	21200	20600	20900				24	46
75	5-Nov-01	76	20100	20730	20900	21000	21100	19900				24	43
76	6-Nov-01	77	19300	19930	20100	19300	19600	20700				24	39
77	7-Nov-01	78	20100	21150	21400	20900	21200	21100	0.8543	2.136	1.22E-03	24	42
78	8-Nov-01	79	20100	22230	22200	22900	21900	21900				25	44
79	9-Nov-01	80	18100	20900	22100	21600	21100	18800				25	37
80	10-Nov-01	81	20800	21530	22200	21100	22700	20100				24	37
81	11-Nov-01	82	19600	21680	23200	21900	21600	20000				25	37
82	12-Nov-01	83	18600	21650	22400	21400	21300	21500				25	37
83	13-Nov-01	84	17300	19750	20800	17800	20400	20000				24	37

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Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m³													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
												Temperature	Humidity
			Nominal (mg/m³)	Analytical Chamber Concentration					MMAD (µm)	GSD	TMC (mg/m³)	Mean (°C)	
	Mean (mg/m³)	Individual (mg/m³)											
84	14-Nov-01	85	20000	21480	21500	22200	20700	21500	2.175	2.486	4.89E-03	24	44
85	15-Nov-01	86	20000	21300	22800	21100	20700	20600				24	49
86	16-Nov-01	87	19100	20700	21500	21300	21000	19000				24	48
87	17-Nov-01	88	18800	20000	20300	21100	19100	19500				24	40
88	18-Nov-01	89	19400	21150	21100	20500	21200	21800				24	43
89	19-Nov-01	90	19600	21400	22200	21100	21100	21200	22.82	2.323	2.58E-02	24	46
90	20-Nov-01	91	20000	21480	22000	20000	22100	21800				24	44
91	21-Nov-01	92	20000	21300	21400	21000	20700	22100				24	34
92	22-Nov-01	93	20500	20950	22600	20400	20200	20600				23	34
93	23-Nov-01	94	20600	20130	19700	21200	20300	19300				23	39
94	24-Nov-01	95	21100	20800	21400	20800	20500	20500	1.034	1.685	2.55E-03	23	45
95	25-Nov-01	96	21000	20030	20400	20100	18100	21500				23	49
96	26-Nov-01	97	21300	21430	21500	22100	21100	21000				23	47
97	27-Nov-01	98	19800	21100	21200	21100	21400	20700				23	40
98	28-Nov-01	99	20600	20280	16900	21800	21300	21100				23	49
99	29-Nov-01	100	19200	20730	20900	20900	21600	19500				25	41
100	30-Nov-01	101	19900	21300	20700	22100	21200	21200				25	50
101	1-Dec-01	102	19400	21230	20700	21000	21500	21700				25	51
102	2-Dec-01	103	17300	19580	20700	20500	18100	19000				25	44
103	3-Dec-01	104	20900	19850	14300	21500	21800	21800				25	40
104	4-Dec-01	105	21100	22430	23500	22300	22000	21900				25	43

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Chamber Monitoring Results Cumulative Exposure Record Group IV - 20000 mg/m³													
Day	Date	Exposure Number							Particle Size			Chamber Environment	
			Nominal (mg/m³)	Analytical Chamber Concentration					Determinations			Mean	
				Mean (mg/m³)	Individual (mg/m³)				MMAD (µm)	GSD	TMC (mg/m³)	Temperature (°C)	Humidity (%)
105	5-Dec-01	106	18500	19300	21500	20400	19800	15500	2.356	2.418	3.87E-03	25	45
106	6-Dec-01	107	19400	20280	19600	20900	20300	20300				25	45
107	7-Dec-01	108	20300	21550	21800	21600	21500	21300				25	45
108	8-Dec-01	109	19200	20480	21200	20100	20300	20300				25	35
109	9-Dec-01	110	19200	19950	19900	19800	20400	19700				25	40
110	10-Dec-01	111	19500	20750	21100	20500	20200	21200				23	38
111	11-Dec-01	112	20100	20750	20100	20700	21100	21100	0.7437	1.752	9.51E-03	23	40
112	12-Dec-01	113	20000	20150	20700	19000	20600	20300				23	41
113	13-Dec-01	114	18400	20650	21300	20900	19500	20900				23	42
114	14-Dec-01	115	19000	19680	20000	20100	19300	19300				23	45
115	15-Dec-01	116	19700	20650	21100	20700	20200	20600				23	36
116	16-Dec-01	117	18900	20500	20200	20500	20700	20600				22	36
117	17-Dec-01	118	19700	20280	20000	20700	19400	21000	2.700	2.075	1.34E-03	23	38
118	18-Dec-01	119	19000	19730	20800	20400	18100	19600				23	42
119	19-Dec-01	120	18800	20130	20200	20800	20100	19400				23	36
120	20-Dec-01	121	20000	21030	21300	21300	21100	20400				23	37
121	21-Dec-01	122	19800	20280	17700	21100	21000	21300				22	36
122	22-Dec-01	123	21100	20330	19300	20800	19900	21300				21	34
123	23-Dec-01	124	23100	19900	19400	19400	21800	19000				20	32
124	24-Dec-01	125	23400	20430	21800	20300	19700	19900				21	37
125	25-Dec-01	126	21200	18850	17500	17800	20800	19300				20	29
126	26-Dec-01	127	22700	20530	21200	19800	21300	19800				20	37
Mean			19430		20500				2.719	2.178	3.40E-03	23.9	41.8
S.D.			859		1184				3.230	0.339	3.45E-03	0.2	4.0

	Inhalation Report	Appendix A
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Table III
Equipment List

Exposure Chamber

1500 Liter glass and stainless steel chamber (Unifab Cages).

Chamber Air-flow Gauges

Dwyer[®] Magnehelic[®] gauge (Dwyer[®] Instruments Inc.), calibrated prestudy with a Side Trak[™] III, equipped with a Digital Meter, Model 831-N2 (Sierra Instruments, Inc.).

Chamber Static Pressure

Dwyer[®] Magnehelic[®] gauge (Dwyer[®] Instruments Inc.); calibrated prestudy with a Dwyer[®] Mark II Manometer, Model 25 (Dwyer[®] Instruments Inc.).

Compound Generator

Counter-Current Volatilization Unit, coiled glass rod insert with nichrome wire (Crown Glass Co., Inc.).

Flowmeter with built-in valve, size 0-65 mm, tube #'s 6G02R3, 6G03R3, 6G04R3 (Key Instruments).

Variable Autotransformer, Type 3PN 1010 (Staco Energy Products Company).

Minitrol, Model PL312 (Glas-col[®] Apparatus Company).

T[°] Sentry Digital Alarm Module, Model 110 (Hampshire Controls Corp.)

Balston[®] Microfibre[™] Disposable Filter Units, No. L9933-05 (Grade DQ).

Quick-disconnect fitting with toggle valve (Rego[®]).

Compound Reservoir

5-gallon cylinder (Manchester Tank).

Balance

Mettler PM30000K (Mettler Instrument Corporation).

Pelooze, Model No. 4010.

	Inhalation Report	Appendix A
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Table III
Equipment List

Flowmeters

Flowmeter, size 0-4, 0-5, 0-30, 0-40 Lpm, (Dwyer®),
Top Trak™ Mass Flow Meter size 0-1 Lpm, Model 821-1, (Sierra Instruments),
calibrated prestudy with a Gilibrator® Bubble Generator, P/N D800286, S/N 569-S,
flow cell assembly P/N D800268, BD #1860).

Pressure/Vacuum Gauges

Matheson® backpressure gauge, P/N 63-3161.
Union Carbide backpressure gauge, P/N SG 8363.
Norgreen backpressure gauge, P/N 9892K23.
Ashcroft backpressure gauge, P/N 733-47.
Dwyer® Magnehelic® gauge.
Gast® vacuum gauge, Model 169-01

Regulator

Norgreen, P/N 9892K23.

Valves

Metering Valve, Model SS-4L Series, (Nupro® Co.).

Tubing

Plastic Size 1/4", 1/2", 3/16" (Norton).
Teflon®, size 1/8", 1/4", 1/2".
Stainless steel 1/2".
T-Tube, stainless steel.
Glass elbow tube (Crown Glass Co.).
Stainless steel cross (Swage).

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Table III
Equipment List

Air Analyzer

MIRAN[®] 1A-CVF Ambient Air Analyzer (Wilks) with a Cole Parmer strip recorder No. 201 and a Micronta[®] LCD Benchtop Digital Multimeter No. 22-195.
Oxygen/Gas Analyzer, Model 12145 (Gastech).
Digital Sound Level Meter, Model 840029 (Speer Scientific).
Photometer/Light Meter (Quantum Instruments).

Particle Sizer/Analyzer

TSI Aerodynamic Particle Sizer, Model 331001 and a DELL computer, Model 486P/25, equipped with an Epson LQ-570+ Dot matrix printer, Model P630B.

Absorbent Tube Sampling

Charcoal Tubes, ORBO-32, Lot #2000 (Supelco).

Vacuum Pumps

Thomas Industries Inc., Model 707CM50, 107CA18 3.

Timer

Gralab Universal Timer, Model 171.

Environmental Monitoring

VWR Big Digit Temperature and Humidity Gauge, tested prestudy with a VWR NIST Traceable Digital Hygrometer/Thermometer.

Miscellaneous

Ball and Socket Joint

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Table IV
Chamber Distribution Records

Group (target)	Date	Port	IR Conc (mg/m ³)	Ratio to H-3
II (2000 mg/m ³)	17-Aug-01	H-3	2060	1.00
		H-1	1920	0.93
		H-2	1880	0.91
		H-3	2060	1.00
		H-9	2160	1.05
		H-7	2150	1.04
		H-8	1770	0.86
		H-3	2030	1.00
		H-11	2200	1.08
		H-12	2170	1.07
		H-13	1870	0.92
		H-3	2070	1.00
		H-14	1920	0.93
	21-Aug-01	H-3	2110	1.00
		H-1	2050	0.97
		H-2	1910	0.91
		H-9	2060	0.98
		H-3	1890	1.00
		H-7	1930	1.02
		H-8	2010	1.06
		H-3	1920	1.00
		H-11	1960	1.02
		H-12	2000	1.04
		H-13	1930	1.01
		H-14	2220	1.16

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Table IV
Chamber Distribution Records

Group (target)	Date	Port	IR Conc (mg/m ³)	Ratio to H-1
III (10000 mg/m ³)	21-Aug-01	H-3	10600	1.00
		H-1	10500	0.99
		H-2	10100	0.95
		H-9	10300	0.97
		H-3	10200	1.00
		H-7	10000	0.98
		H-8	10800	1.06
		H-11	11900	1.17
		H-3	10600	1.00
		H-12	10700	1.01
		H-13	10400	0.98
		H-14	9990	0.94
IV (20000 mg/m ³)	20-Aug-01	H-3	20200	1.00
		H-1	20100	1.00
		H-3	20900	1.00
		H-2	20600	0.99
		H-9	19900	0.95
		H-7	19200	0.92
		H-3	20400	1.00
		H-8	21300	1.04
		H-11	21400	1.05
		H-3	21300	1.00
		H-12	20700	0.97
		H-13	21300	1.00
		H-14	20800	0.98

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Table V
Miran Calibration

Methodology for Gasoline TAME Vapor Condensate

Miran Calibration for Miran #04, used 22 August 2001 to 27 September 2001.

Settings: The instrument settings for the unit are summarized below:

wavelength, microns	10.3
pathlength, dial setting	5.53
slit width, mm	1
range, absorbance	1
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

Calibrations: The Miran® was turned on and allowed to warm up for approximately 10 minutes. The cell was flushed with room air for approximately one minute. The loop was closed, the unit was zeroed and the calibration series was performed as shown below. The resultant data were plotted to obtain a calibration curve. Each observer used a separate syringe for calibration.

Injection Volume (μL)	Calculated Concentration ¹ (mg/m ³)	Absorbance		
		Operator 1 (volts)	Operator 2 (volts)	Average (volts)
8.8	1014	0.0327	0.0347	0.0337
17	1959	0.0744	0.0759	0.0752
85	9796	0.329	0.323	0.326
175	20168	0.650	0.612	0.634 ²
		0.574	0.699	
215	24778	0.833	0.846	0.817 ²
		0.760	0.828	

¹Calculated Conc. (mg/m³) = $\frac{\text{Injection volume } (\mu\text{L}) \times \text{Density (mg}/\mu\text{L}) \times 1000 \text{ L/m}^3}{5.64 \text{ L}}$

²Due to the variability of the results, two additional injections were performed for these points. All four values were used for the regression analysis, where density = 0.65 mg/μL and 5.64 L = volume of Miran cell.

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Table V
Miran Calibration

Calibration Checks: A three-point calibration check of the Miran[®] was performed for each exposure prior to sampling the chambers. The parameters are shown below:

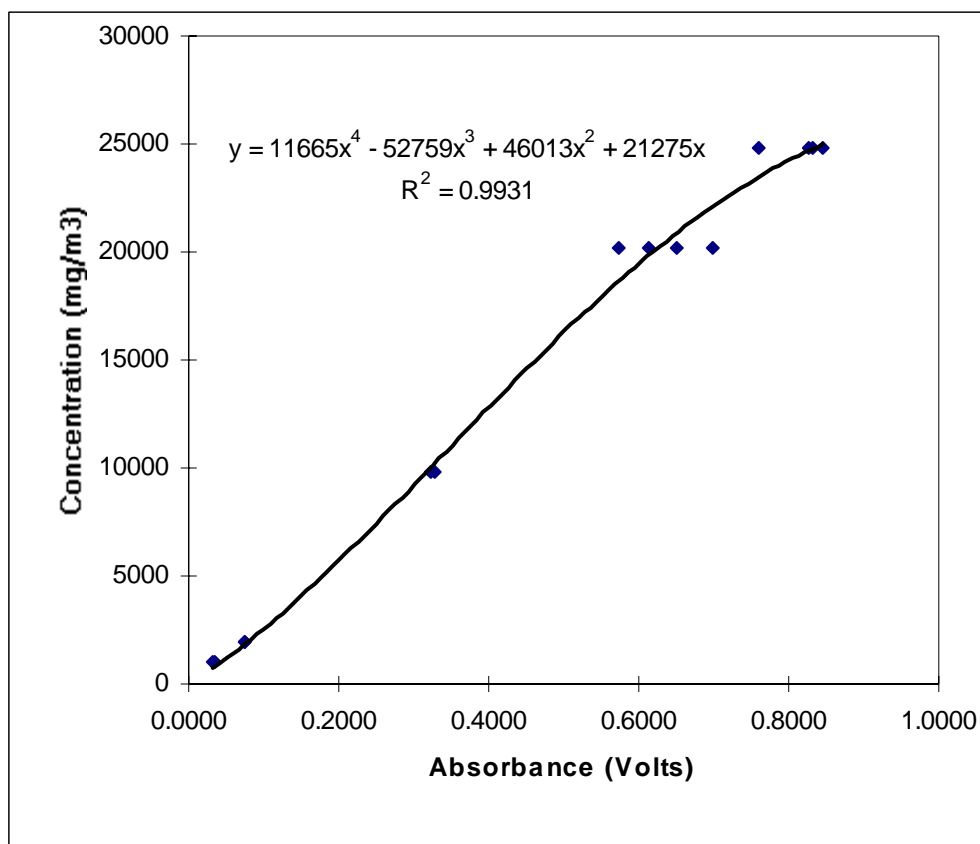
<u>Injection Volume</u> (μ L)	<u>Calculated Concentration</u> (mg/m ³)	<u>Expected Absorbance Reading</u> (volts)	<u>Acceptable Absorbance Range</u> (volts)
17	1959	0.0752	0.0639 – 0.0865
85	9796	0.326	0.277 – 0.375
175	20168	0.634	0.539 – 0.729

The absorbance was recorded after each injection. The absorbance was considered satisfactory if it was within 15% of the original calibration series. If any of the absorbance values fell outside the 15% range, the injection was rechecked as follows. The volume for the value that was out of range was reinjected twice. The closer pair of the three injections were averaged and the results were compared to the original curve. If the average of the pair was within the 15% range, the original was accepted. If the value of the average was outside the 15% range, the Study Director decided if a new graph was to be prepared.

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Table V
Miran Calibration

Calibration Curve for Gasoline TAME Vapor Condensate



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Table V
Miran Calibration

Methodology for Gasoline TAME Vapor Condensate

Miran Calibration for Miran #02, used 28 September 2001 to 26 December 2001.

Settings: The instrument settings for the unit are summarized below:

wavelength, microns	10.3
pathlength, dial setting	5.53
slit width, mm	1
range, absorbance	1
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

Calibrations: The Miran® was turned on and allowed to warm up for approximately 10 minutes. The cell was flushed with room air for approximately one minute. The loop was closed, the unit was zeroed and the calibration series was performed as shown below. The resultant data were plotted to obtain a calibration curve. Each observer used a separate syringe for calibration.

Injection Volume (μL)	Calculated Concentration ¹ (mg/m ³)	Absorbance		
		Operator 1 (volts)	Operator 2 (volts)	Average (volts)
8.8	1014	0.0350	0.0363	0.0357
17	1959	0.0720	0.0764	0.0742
85	9796	0.357	0.352	0.355
175	20168	0.707	0.672	0.690
215	24778	0.856	0.825	0.841

$$^1\text{Calculated Conc. (mg/m}^3\text{)} = \frac{\text{Injection volume (}\mu\text{L)} \times \text{Density (mg/}\mu\text{L)} \times 1000 \text{ L/m}^3}{5.64 \text{ L}}$$

where density = 0.65 mg/μL

5.64 L = volume of Miran cell

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Table V
Miran Calibration

Calibration Checks: A three-point calibration check of the Miran[®] was performed for each exposure prior to sampling the chambers. The parameters are shown below:

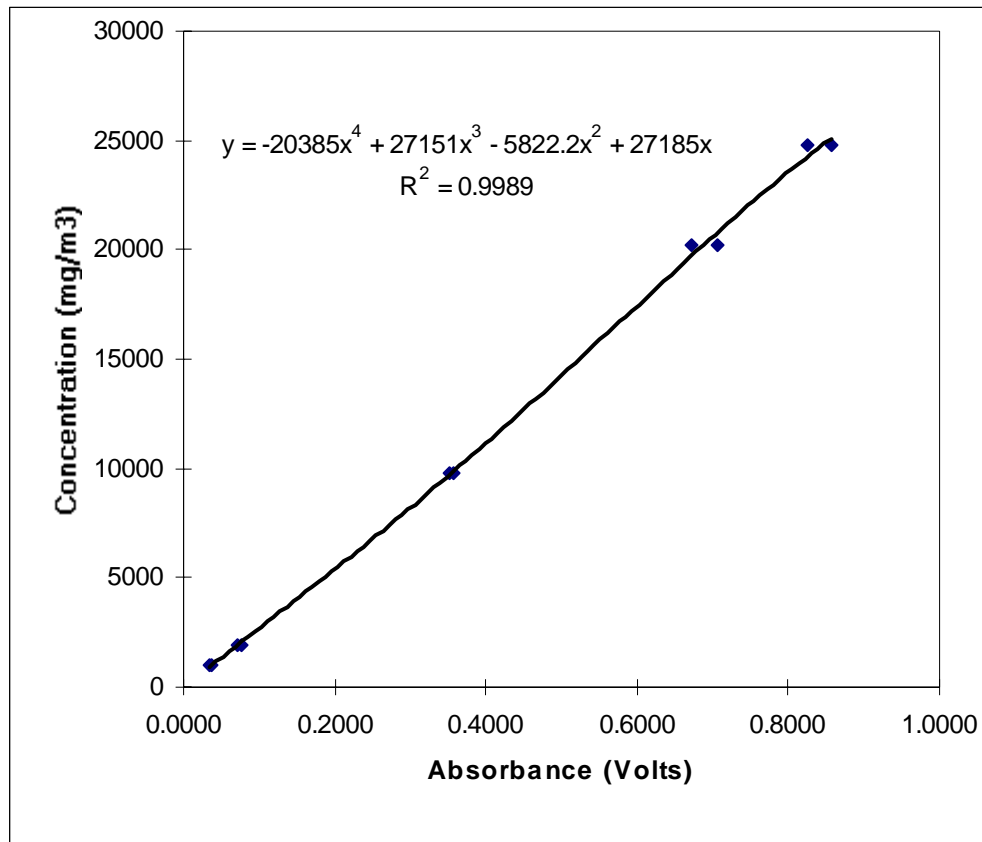
<u>Injection Volume</u> (μ L)	<u>Calculated Concentration</u> (mg/m ³)	<u>Expected Absorbance Reading</u> (volts)	<u>Acceptable Absorbance Range</u> (volts)
17	1959	0.0742	0.0631 – 0.0853
85	9796	0.355	0.302 – 0.408
175	20168	0.690	0.587 – 0.794

The absorbance was recorded after each injection. The absorbance was considered satisfactory if it was within 15% of the original calibration series. If any of the absorbance values fell outside the 15% range, the injection was rechecked as follows. The volume for the value that was out of range was reinjected twice. The closer pair of the three injections were averaged and the results were compared to the original curve. If the average of the pair was within the 15% range, the original was accepted. If the value of the average was outside the 15% range, the Study Director decided if a new graph was to be prepared.

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Table V
Miran Calibration

Calibration Curve for Gasoline TAME Vapor Condensate



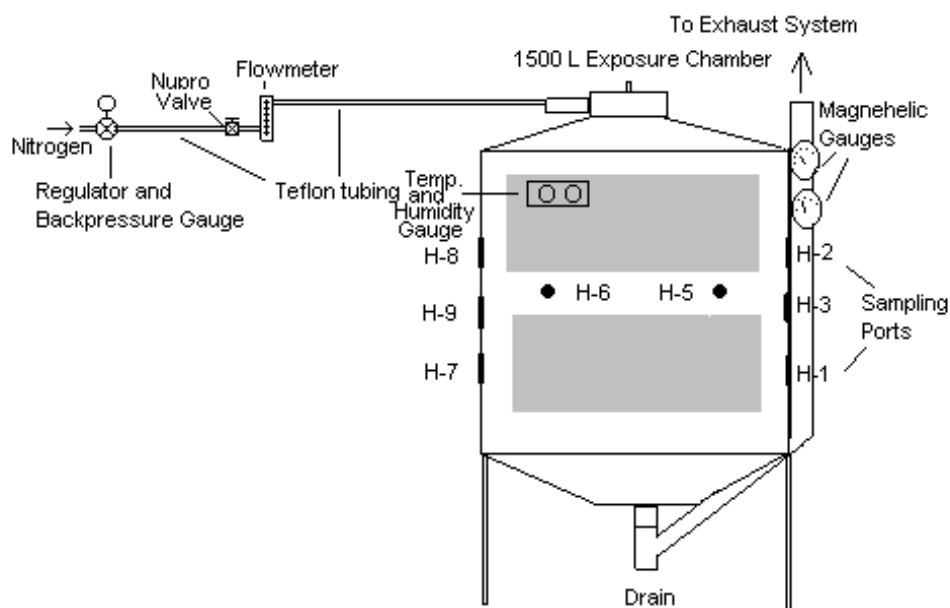
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Table VI
Testing Room and Chambers Environmental Monitoring

Interval	Location	Test Substance (mg/m ³)	Light (Ft Candles)	Noise (dB)	Oxygen (%)
Pretest	Room 809	0	30.4	61.6	-
	Group I Chamber	-	-	-	20
	Group II Chamber	-	-	-	20
	Group III Chamber	-	-	-	20
	Group IV Chamber	-	-	-	20
Week 0	Room 809	0	30.5	60.0	-
	Group I Chamber	-	-	-	20
	Group II Chamber	-	-	-	20
	Group III Chamber	-	-	-	20
	Group IV Chamber	-	-	-	20
Week 9	Room 809	0	31.1	58.4	-
	Group I Chamber	-	-	-	20
	Group II Chamber	-	-	-	20
	Group III Chamber	-	-	-	20
	Group IV Chamber	-	-	-	20
Week 17	Room 809	0	31.3	63.0	-
	Group I Chamber	-	-	-	20
	Group II Chamber	-	-	-	20
	Group III Chamber	-	-	-	20
	Group IV Chamber	-	-	-	20

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Figure I
Chamber Generation System
and Whole-Body Exposure Chamber

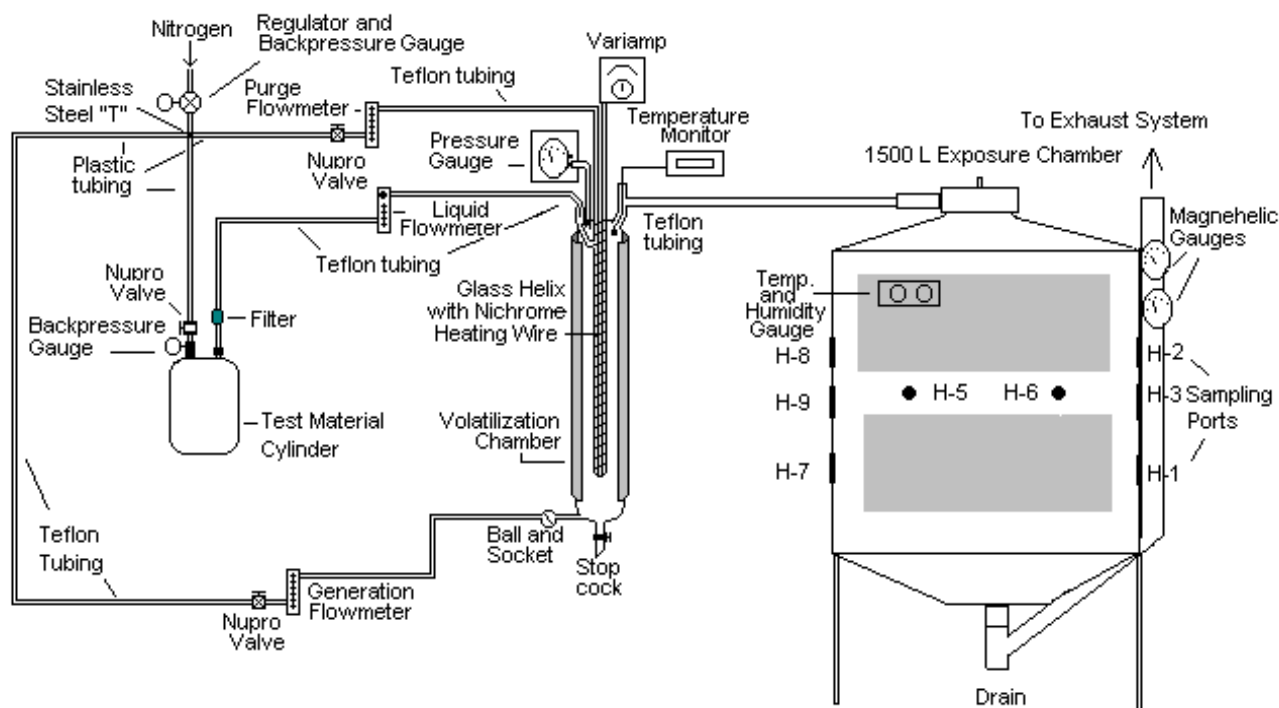


Notes:

1. Sampling Ports H-11 (left-bottom), H-12 (left-top), H-13 (right-bottom) and H-14 (right-top) used for pretest distribution sampling, were located on the back wall of the chambers.
2. Animals were individually housed on three levels within the exposure chamber.

Groups II, III and IV	Inhalation Report	Appendix A
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Figure II
Chamber Generation System
and Whole-Body Exposure Chamber



Notes:

1. Sampling Ports H-11 (left-bottom), H-12 (left-top), H-13 (right-bottom) and H-14 (right-top) used for pretest distribution sampling, were located on the back wall of the chambers.
2. Animals were individually housed on three levels within the exposure chamber.

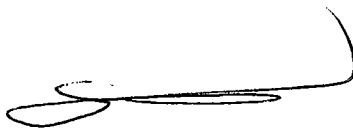
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STUDY TITLE**Analytical Report For:****Gasoline TAME Vapor Condensate:
A One Generation Whole-Body Inhalation Reproduction Toxicity In Rats****AUTHOR****Yonggang Wang****REPORT DATE****22 January 2009****STUDY NUMBER****00-4202**

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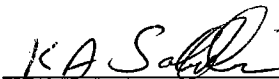
SIGNATURES

Written by:

Yonggang Wang, M.A.
Laboratory Manager
Formulation Chemistry22 Jan 09

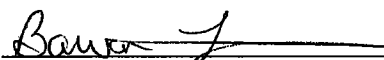
Date

Reviewed by:

Kay Saladdin, B.S.
Associate Director
Formulation Chemistry22 Jan 09

Date

Approved by:

Barbara A. Litzenberger, B.S. MT (ASCP)
Director
Analytical Services22 Jan 09

Date

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1. Summary

Samples of the test substance (Gasoline TAME Vapor Condensate) exposures to rats were analyzed to confirm that the relative concentrations of the test substance's major components were appropriate under the study conditions. The analytical method was validated at Huntingdon Life Sciences (HLS). The method involved the extraction of Gasoline TAME Vapor Condensate from charcoal tubes with Carbon Disulfide (CS₂). The test substance's major components were then quantified (relative area percent) utilizing Gas Chromatography with a Flame Ionization Detection (FID).

2. Experimental Procedures

The analytical method (HLS-008-01) was validated by the Analytical Toxicology Support Department at HLS. Details of the analytical methods and their validation are maintained in the study files for Study No. 00-6128.

The charcoal tube samples containing the test substance were received from the Inhalation Department at HLS. Samples analyzed to determine the relative concentration of the major components of Gasoline TAME Vapor Condensate were extracted from the charcoal tubes with Carbon Disulfide (CS₂). The extracted solutions were analyzed by Gas Chromatography equipped with a Supelco Petrocol™ DH 150 (150m x 0.25mm, 1.0 µm) column and Flame Ionization Detector (FID). PE Nelson Turbochrom installed on a personal computer was used for data collection and processing.

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Date of sample receipt and analysis is listed as follows:

Interval	Date of Exposures	Date Received	Date Analyzed
Pretest	20 August 01	20 August 01	20–22 August 01
Exposure-5	27 August 01	27 August 01	27–29 August 01
Exposure-12	03 September 01	03 September 01	03-05 September 01
Exposure-19	10 September 01	10 September 01	11-13 September 01
Exposure-26	17 September 01	17 September 01	17-19 September 01
Exposure-33	24 September 01	24 September 01	24-26 September 01
Exposure-40	01 October 01	01 October 01	01-02 October-01
Exposure-47	08 October 01	08 October 01	08-09 October-01
Exposure-54	15 October 01	15 October 01	15-16 October-01
Exposure-61	22 October 01	22 October 01	22-23 October 01
Exposure-68	29 & 30 October 01	29 & 30 October 01	29-30 October 01
Exposure-75	05 November 01	05 November 01	05-06 November 01
Exposure-82	12 November 01	12 November 01	12-13 November 01
Exposure-89	19 November 01	19 November 01	19-21 November 01
Exposure-96	26 November 01	26 November 01	26-27 November 01
Exposure-103	03 December 01	03 December 01	06-07 December 01
Exposure-116	16 December 01	17 December 01	17-19 December 01
Exposure-117	17 December 01	17 December 01	17-19 December 01
Exposure-123	23 December 01	24 December 01	23-24 December 01

3. Results and Discussion

During the trials and exposures, Gasoline TAME Vapor Condensate was analyzed to determine the area percent of the test substance's major components in the chamber. The results of the pretest, summary of animal exposures and animal exposures are presented in Tables I, II, and III. Typical chromatograms of groups I, II, III, and IV are presented in Figures I to IV.

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Table I. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Pretest /Trials

Compound	Area %								
	Control 1	TM Standard-1	Spiked Control-1	Sample 101	Sample 201	Sample 301	Sample 401	TM Standard-2	Spiked Control-2
	013_002	013_003	013_004	013_013	013_014	013_015	013_016	013_017	013_018
Isobutane	ND	1.52	1.59	ND	1.77	1.79	1.77	1.43	1.54
N-Butane	ND	8.76	8.95	ND	9.69	9.78	9.70	8.40	8.72
3-Methyl-1-butene	ND	0.35	0.36	ND	0.36	0.37	0.36	0.35	0.35
Isopentane	ND	33.07	33.44	ND	33.63	33.78	33.75	32.78	33.09
N-Pentane	ND	7.67	7.69	ND	7.64	7.58	7.58	7.55	7.59
Trans-2-pentene	ND	1.68	1.61	ND	1.69	1.68	1.73	1.77	1.69
2,3-Dimethylbutane	ND	2.03	2.06	ND	1.96	1.98	1.98	2.00	2.03
2-Methylpentane	ND	6.20	6.23	ND	6.06	6.06	6.07	6.27	6.24
3-Methylpentane	ND	3.60	3.62	ND	3.52	3.51	3.52	3.65	3.63
N-hexane	ND	3.13	3.14	ND	3.04	3.02	3.03	3.17	3.15
Methylcyclopentane	ND	1.63	1.62	ND	1.58	1.58	1.58	1.66	1.64
2,4-Dimethylpentane	ND	1.48	1.48	ND	1.43	1.43	1.42	1.51	1.50
Benzene	<LOQ	2.51	2.44	<LOQ	2.37	2.37	2.38	2.54	2.46
2-Methylhexane	ND	1.63	1.63	ND	1.57	1.57	1.57	1.67	1.66
2,3-Dimethylpentane	ND	1.65	1.63	ND	1.59	1.59	1.59	1.69	1.68
TAME	ND	13.99	13.76	ND	13.36	13.31	13.36	14.26	13.98
3-Methylhexane	ND	1.84	1.84	ND	1.78	1.77	1.77	1.88	1.87
Isooctane	ND	2.08	2.02	ND	2.01	2.00	1.99	2.12	2.11
Toluene	ND	3.77	3.59	ND	3.52	3.48	3.49	3.85	3.71
Total	0.00	98.59	98.70	0.00	98.57	98.65	98.64	98.55	98.64

ND = not detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

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**Table II. Summary of Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
(Exposures 5-123)**

Compound	Area %											
	TM Standard-1	Spiked Control 1	Samples Group 1	Samples Group 2	Samples Group 3	Samples Group 4	TM Standard-2	Spiked Control 2	All Samples ^a	All Standards	% Difference ^b	Absolute Difference ^c
Isobutane	1.55	1.53	ND	1.72	1.74	1.74	1.49	1.56	1.73	1.52	-13.82	-0.21
N-Butane	8.78	8.70	ND	9.52	9.57	9.62	8.67	8.89	9.57	8.73	-9.62	-0.84
3-Methy-1-butene	0.35	0.35	ND	0.37	0.36	0.36	0.35	0.35	0.36	0.35	-2.86	-0.01
Isopentane	33.22	33.21	ND	34.06	33.93	34.25	33.08	33.35	34.08	33.15	-2.81	-0.93
N-Pentane	7.41	7.45	ND	7.51	7.42	7.49	7.44	7.41	7.47	7.43	-0.54	-0.04
Trans-2-pentene	1.97	1.91	ND	1.91	1.94	1.97	2.01	1.93	1.94	1.99	2.51	0.05
2,3-Dimethylbutane	2.01	2.03	ND	1.96	1.98	1.97	2.00	2.01	1.97	2.01	1.99	0.04
2-Methylpentane	6.09	6.13	ND	6.06	5.99	5.98	6.10	6.13	6.01	6.10	1.48	0.09
3-Methylpentane	3.62	3.64	ND	3.56	3.55	3.54	3.63	3.61	3.55	3.63	2.20	0.08
N-hexane	3.14	3.17	ND	3.05	3.07	3.04	3.15	3.14	3.05	3.15	3.17	0.10
Methylcyclopentane	1.64	1.65	ND	1.59	1.60	1.59	1.64	1.63	1.59	1.64	3.05	0.05
2,4-Dimethylpentane	1.44	1.46	ND	1.40	1.42	1.39	1.47	1.46	1.40	1.46	4.11	0.06
Benzene	2.54	2.49	ND	2.37	2.38	2.36	2.54	2.46	2.37	2.54	6.69	0.17
2-Methylhexane	1.63	1.65	ND	1.56	1.57	1.55	1.64	1.63	1.56	1.64	4.88	0.08
2,3-Dimethylpentane	1.64	1.66	ND	1.58	1.58	1.55	1.65	1.64	1.57	1.65	4.85	0.08
TAME	14.01	14.02	ND	13.30	13.36	13.19	14.04	13.86	13.28	14.03	5.35	0.75
3-Methylhexane	1.84	1.86	ND	1.76	1.77	1.75	1.85	1.84	1.76	1.85	4.86	0.09
Isooctane	2.03	2.06	ND	1.95	1.95	1.92	2.04	2.04	1.94	2.04	4.90	0.10
Toluene	3.76	3.70	ND	3.44	3.46	3.41	3.79	3.67	3.44	3.78	8.99	0.34
Total	98.67	98.67	0.00	98.67	98.64	98.67	98.58	98.61	98.64	98.69	-	-

ND = not detected.

^a Groups II, III, and IV only. ^b % Difference = (All Standards Area % - All Samples Area %) / All Standards Area % *100.

^c Absolute Difference = Difference in Area % = All Standards Area % - All Samples Area %.

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Table III-A. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 5

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1001	Sample 2001	Sample 3001	Sample 4001	TM Standard 2	Spiked Control 2
Compound	014_002	014_003	014_004	014_013	014_014	014_015	014_016	014_017	014_018
Isobutane	ND	1.46	1.56	ND	1.79	1.84	1.76	1.50	1.57
N-Butane	ND	8.45	8.84	ND	9.76	10.00	9.57	8.59	8.86
3-Methyl-1-butene	ND	0.35	0.35	ND	0.37	0.38	0.37	0.35	0.35
Isopentane	ND	33.08	33.30	ND	34.19	35.00	33.87	33.24	33.25
N-Pentane	ND	7.61	7.54	ND	7.72	7.55	7.65	7.50	7.50
Trans-2-pentene	ND	1.73	1.59	ND	1.74	1.66	1.71	1.66	1.68
2,3-Dimethylbutane	ND	2.08	2.06	ND	1.98	1.96	2.02	2.02	2.00
2-Methylpentane	ND	6.29	6.28	ND	6.09	6.11	6.11	6.28	6.26
3-Methylpentane	ND	3.66	3.65	ND	3.53	3.53	3.54	3.64	3.63
N-hexane	ND	3.16	3.17	ND	3.03	3.02	3.07	3.16	3.16
Methylcyclopentane	ND	1.66	1.64	ND	1.59	1.59	1.59	1.65	1.63
2,4-Dimethylpentane	ND	1.49	1.49	ND	1.40	1.37	1.43	1.49	1.48
Benzene	ND	2.55	2.46	ND	2.35	2.33	2.39	2.53	2.46
2-Methylhexane	ND	1.66	1.65	ND	1.53	1.48	1.58	1.65	1.65
2,3-Dimethylpentane	ND	1.65	1.65	ND	1.55	1.49	1.58	1.66	1.65
TAME	ND	14.08	13.91	ND	13.08	12.76	13.28	14.04	13.92
3-Methylhexane	ND	1.87	1.81	ND	1.73	1.66	1.77	1.85	1.86
Isooctane	ND	2.05	2.06	ND	1.89	1.78	1.95	2.04	2.05
Toluene	ND	3.77	3.63	ND	3.33	3.10	3.45	3.75	3.66
Total	0.00	98.65	98.64	0.00	98.65	98.61	98.69	98.60	98.62

ND = not detected

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Table III-B. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 12

	Area %								
	Control 1	TM Standard-1	Spiked Control 1	Sample 1002	Sample 2002	Sample 3002	Sample 4002	TM Standard 2	Spiked Control 2
Compound	015_002	015_003	015_004	015_013	015_014	015_015	015_016	015_017	015_018
Isobutane	ND	1.56	1.57	ND	1.81	1.79	1.80	1.53	1.58
N-Butane	ND	8.86	8.90	ND	9.76	9.69	9.72	8.75	8.91
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.36	0.36	0.34	0.34
Isopentane	ND	33.41	33.33	ND	34.44	33.99	34.16	33.26	33.42
N-Pentane	ND	7.45	7.82	ND	7.72	7.72	7.75	7.68	7.70
Trans-2-pentene	ND	1.75	1.65	ND	1.61	1.61	1.74	1.73	1.61
2,3-Dimethylbutane	ND	2.03	2.03	ND	2.00	1.96	2.03	2.06	1.99
2-Methylpentane	ND	6.22	6.23	ND	6.12	6.08	6.09	6.24	6.21
3-Methylpentane	ND	3.61	3.62	ND	3.55	3.52	3.53	3.62	3.61
N-hexane	ND	3.13	3.10	ND	3.03	3.03	3.03	3.14	3.13
Methylcyclopentane	ND	1.63	1.63	ND	1.59	1.58	1.59	1.63	1.63
2,4-Dimethylpentane	ND	1.46	1.46	ND	1.38	1.42	1.40	1.46	1.47
Benzene	ND	2.53	2.46	ND	2.36	2.36	2.36	2.52	2.45
2-Methylhexane	ND	1.63	1.63	ND	1.53	1.57	1.54	1.63	1.64
2,3-Dimethylpentane	ND	1.63	1.63	ND	1.53	1.57	1.55	1.63	1.64
TAME	ND	13.85	13.76	ND	13.06	13.23	13.09	13.89	13.78
3-Methylhexane	ND	1.82	1.84	ND	1.70	1.76	1.73	1.83	1.84
Isooctane	ND	2.01	2.02	ND	1.84	1.95	1.89	2.02	2.03
Toluene	ND	3.70	3.60	ND	3.26	3.44	3.34	3.70	3.64
Total	0.00	98.63	98.64	0.00	98.66	98.63	98.70	98.66	98.62

ND = not detected.

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Table III-C. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 19

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1003	Sample 2003	Sample 3003	Sample 4003	TM Standard 2	Spiked Control 2
Compound	016_002	016_003	016_004	016_013	016_014	016_015	016_016	016_017	016_018
Isobutane	ND	1.50	1.51	ND	1.67	1.62	1.79	1.43	1.54
N-Butane	ND	8.56	8.60	ND	9.33	9.14	9.63	8.36	8.72
3-Methyl-1-butene	ND	0.35	0.35	ND	0.35	0.36	0.37	0.35	0.35
Isopentane	ND	33.01	33.04	ND	32.88	33.64	34.05	33.06	33.31
N-Pentane	ND	7.56	7.59	ND	7.66	7.51	7.53	7.39	7.40
Trans-2-pentene	ND	1.72	1.65	ND	1.62	1.69	1.61	1.67	1.62
2,3-Dimethylbutane	ND	2.04	1.99	ND	2.03	2.03	2.00	2.03	2.03
2-Methylpentane	ND	6.25	6.25	ND	6.24	6.18	6.11	6.25	6.25
3-Methylpentane	ND	3.64	3.64	ND	3.62	3.59	3.55	3.67	3.63
N-hexane	ND	3.15	3.16	ND	3.13	3.11	3.06	3.17	3.15
Methylcyclopentane	ND	1.65	1.65	ND	1.63	1.61	1.59	1.66	1.64
2,4-Dimethylpentane	ND	1.42	1.43	ND	1.45	1.45	1.39	1.50	1.48
Benzene	ND	2.55	2.49	ND	2.42	2.44	2.45	2.57	2.46
2-Methylhexane	ND	1.65	1.67	ND	1.61	1.60	1.57	1.66	1.65
2,3-Dimethylpentane	ND	1.66	1.67	ND	1.64	1.61	1.54	1.67	1.66
TAME	ND	14.26	14.25	ND	13.78	13.75	13.54	14.41	14.14
3-Methylhexane	ND	1.85	1.88	ND	1.83	1.80	1.73	1.87	1.86
Isooctane	ND	2.05	2.09	ND	2.07	1.99	1.89	2.08	2.06
Toluene	ND	3.79	3.74	ND	3.64	3.54	3.32	3.82	3.69
Total	0.00	98.66	98.65	0.00	98.60	98.66	98.72	98.62	98.64

ND = not detected.

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Table III-D. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 26

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1004	Sample 2004	Sample 3004	Sample 4004	TM Standard 2	Spiked Control 2
Compound	017_002	017_003	017_004	017_013	017_014	017_015	017_016	017_017	017_018
Isobutane	ND	1.36	1.41	ND	1.71	1.72	1.75	0.83	1.41
N-Butane	ND	8.09	8.25	ND	9.36	9.47	9.49	6.18	8.20
3-Methyl-1-butene	ND	0.33	0.34	ND	0.35	0.36	0.36	0.32	0.34
Isopentane	ND	32.67	32.79	ND	33.72	34.04	33.84	31.26	32.76
N-Pentane	ND	7.47	7.45	ND	7.60	7.72	7.56	7.43	7.48
Trans-2-pentene	ND	1.77	1.75	ND	1.74	1.71	1.79	1.83	1.79
2,3-Dimethylbutane	ND	2.03	2.10	ND	2.03	2.03	1.98	2.19	2.05
2-Methylpentane	ND	6.37	6.37	ND	6.15	6.16	6.11	6.70	6.35
3-Methylpentane	ND	3.71	3.71	ND	3.57	3.57	3.56	3.93	3.70
N-hexane	ND	3.23	3.22	ND	3.08	3.07	3.06	3.46	3.22
Methylcyclopentane	ND	1.69	1.69	ND	1.61	1.61	1.60	1.82	1.68
2,4-Dimethylpentane	ND	1.45	1.46	ND	1.43	1.40	1.41	1.64	1.51
Benzene	ND	2.64	2.56	ND	2.40	2.41	2.42	2.86	2.55
2-Methylhexane	ND	1.70	1.70	ND	1.59	1.55	1.58	1.84	1.69
2,3-Dimethylpentane	ND	1.70	1.71	ND	1.60	1.55	1.57	1.86	1.70
TAME	ND	14.49	14.35	ND	13.46	13.28	13.37	15.63	14.32
3-Methylhexane	ND	1.90	1.91	ND	1.79	1.73	1.77	2.08	1.91
Isooctane	ND	2.10	2.12	ND	1.98	1.88	1.94	2.32	2.13
Toluene	ND	3.89	3.81	ND	3.51	3.32	3.45	4.33	3.82
Total	0.00	98.59	98.70	0.00	98.68	98.58	98.61	98.51	98.61

ND = not detected.

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Table III-E. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 33

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1005	Sample 2005	Sample 3005	Sample 4005	TM Standard 2	Spiked Control 2
Compound	018_002	018_003	018_004	018_013	018_014	018_015	018_016	018_017	018_018
Isobutane	ND	1.53	1.45	ND	1.63	1.70	1.30	1.46	1.62
N-Butane	ND	8.73	8.45	ND	9.17	9.34	8.16	8.48	9.02
3-Methyl-1-butene	ND	0.35	0.35	ND	0.36	0.36	0.35	0.35	0.35
Isopentane	ND	33.11	32.91	ND	33.62	33.68	33.25	33.14	33.49
N-Pentane	ND	7.59	7.59	ND	7.56	7.46	7.53	7.47	7.42
Trans-2-pentene	ND	1.62	1.65	ND	1.69	1.79	1.81	1.79	1.75
2,3-Dimethylbutane	ND	1.97	2.06	ND	1.97	1.98	2.09	2.02	2.05
2-Methylpentane	ND	6.19	6.27	ND	6.17	6.15	6.40	6.25	6.22
3-Methylpentane	ND	3.60	3.66	ND	3.59	3.57	3.72	3.66	3.60
N-hexane	ND	3.13	3.18	ND	3.10	3.07	3.19	3.18	3.04
Methylcyclopentane	ND	1.64	1.67	ND	1.62	1.61	1.69	1.66	1.63
2,4-Dimethylpentane	ND	1.46	1.49	ND	1.43	1.42	1.49	1.45	1.45
Benzene	ND	2.56	2.54	ND	2.43	2.40	2.56	2.60	2.48
2-Methylhexane	ND	1.63	1.67	ND	1.60	1.59	1.67	1.65	1.63
2,3-Dimethylpentane	ND	1.64	1.67	ND	1.60	1.60	1.68	1.65	1.63
TAME	ND	14.16	14.33	ND	13.59	13.50	14.11	14.15	13.83
3-Methylhexane	ND	1.84	1.88	ND	1.80	1.78	1.88	1.86	1.83
Isooctane	ND	2.04	2.08	ND	1.98	1.96	2.06	2.02	2.00
Toluene	ND	3.79	3.76	ND	3.51	3.51	3.65	3.79	3.64
Total	0.00	98.58	98.66	0.00	98.42	98.47	98.59	98.63	98.68

ND = not detected.

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Table III-F. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 40

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1006	Sample 2006	Sample 3006	Sample 4006	TM Standard 2	Spiked Control 2
Compound	001_002	001_003	001_004	001_005	001_006	001_007	001_008	001_009	001_010
Isobutane	ND	1.54	1.58	ND	1.66	1.61	1.49	1.52	1.38
N-Butane	ND	8.73	8.91	ND	9.35	9.14	8.77	8.72	8.31
3-Methyl-1-butene	ND	0.35	0.36	ND	0.36	0.36	0.36	0.35	0.35
Isopentane	ND	33.27	33.47	ND	33.83	33.75	33.56	33.20	33.01
N-Pentane	ND	7.50	7.51	ND	7.54	7.54	7.57	7.41	7.59
Trans-2-pentene	ND	1.91	1.86	ND	1.88	1.98	1.95	2.01	1.79
2,3-Dimethylbutane	ND	2.05	2.00	ND	2.04	2.13	1.99	1.98	2.07
2-Methylpentane	ND	6.23	6.24	ND	6.17	6.22	6.26	6.24	6.34
3-Methylpentane	ND	3.63	3.62	ND	3.58	3.61	3.64	3.62	3.69
N-hexane	ND	3.16	3.14	ND	3.03	3.10	3.15	3.15	3.20
Methylcyclopentane	ND	1.64	1.64	ND	1.62	1.63	1.65	1.64	1.67
2,4-Dimethylpentane	ND	1.39	1.39	ND	1.47	1.40	1.41	1.41	1.44
Benzene	ND	2.57	2.49	ND	2.41	2.31	2.47	2.56	2.55
2-Methylhexane	ND	1.64	1.64	ND	1.59	1.60	1.62	1.63	1.68
2,3-Dimethylpentane	ND	1.62	1.61	ND	1.60	1.60	1.63	1.63	1.68
TAME	ND	14.00	13.81	ND	13.37	13.60	13.73	13.98	14.20
3-Methylhexane	ND	1.83	1.82	ND	1.76	1.80	1.82	1.83	1.88
Isooctane	ND	1.99	1.98	ND	1.97	1.97	2.00	2.01	2.07
Toluene	ND	3.69	3.58	ND	3.52	3.45	3.56	3.73	3.76
Total	0.00	98.74	98.65	0.00	98.75	98.80	98.63	98.62	98.66

ND = not detected

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Table III-G. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 47

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1007	Sample 2007	Sample 3007	Sample 4007	TM Standard 2	Spiked Control 2
Compound	002_002	002_003	002_004	002_005	002_006	002_007	002_008	002_009	002_010
Isobutane	ND	1.55	1.56	ND	1.64	1.70	1.75	1.47	1.57
N-Butane	ND	8.77	8.78	ND	9.21	9.34	9.56	8.57	8.88
3-Methyl-1-butene	ND	0.35	0.34	ND	0.36	0.36	0.36	0.35	0.35
Isopentane	ND	33.26	33.23	ND	33.72	33.71	33.90	33.25	33.36
N-Pentane	ND	7.49	7.45	ND	7.50	7.47	7.51	7.43	7.45
Trans-2-pentene	ND	1.90	1.80	ND	1.80	1.87	1.86	1.90	1.82
2,3-Dimethylbutane	ND	2.03	2.07	ND	2.05	2.01	1.97	2.04	2.06
2-Methylpentane	ND	6.24	6.27	ND	6.20	6.16	6.13	6.27	6.26
3-Methylpentane	ND	3.62	3.65	ND	3.60	3.58	3.55	3.65	3.63
N-hexane	ND	3.14	3.15	ND	3.11	3.09	3.02	3.12	3.14
Methylcyclopentane	ND	1.64	1.65	ND	1.62	1.62	1.60	1.66	1.64
2,4-Dimethylpentane	ND	1.40	1.41	ND	1.42	1.41	1.40	1.45	1.44
Benzene	ND	2.56	2.51	ND	2.43	2.43	2.31	2.58	2.49
2-Methylhexane	ND	1.64	1.66	ND	1.60	1.59	1.58	1.65	1.64
2,3-Dimethylpentane	ND	1.62	1.65	ND	1.61	1.59	1.58	1.64	1.63
TAME	ND	13.97	14.01	ND	13.55	13.51	13.39	14.08	13.86
3-Methylhexane	ND	1.82	1.85	ND	1.80	1.78	1.77	1.83	1.83
Isooctane	ND	1.99	2.03	ND	1.97	1.95	1.94	1.99	2.00
Toluene	ND	3.69	3.64	ND	3.48	3.47	3.47	3.72	3.61
Total	0.00	98.68	98.71	0.00	98.67	98.64	98.65	98.65	98.66

ND = not detected.

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Table III-H. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 54

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1008	Sample 2008	Sample 3008	Sample 4008	TM Standard 2	Spiked Control 2
Compound	003_002	003_003	003_004	003_005	003_006	003_007	003_008	003_009	003_010
Isobutane	ND	1.57	1.69	ND	1.73	1.73	1.84	1.58	1.64
N-Butane	ND	8.83	9.37	ND	9.57	9.59	9.91	8.91	9.17
3-Methyl-1-butene	ND	0.35	0.37	ND	0.37	0.37	0.37	0.36	0.36
Isopentane	ND	33.34	34.12	ND	34.05	34.06	34.22	33.52	33.71
N-Pentane	ND	7.47	7.75	ND	7.56	7.59	7.53	7.49	7.53
Trans-2-pentene	ND	1.77	1.71	ND	1.73	1.80	1.84	1.82	1.74
2,3-Dimethylbutane	ND	1.98	1.97	ND	1.97	2.03	1.97	1.97	2.00
2-Methylpentane	ND	6.22	6.16	ND	6.12	6.11	6.09	6.21	6.20
3-Methylpentane	ND	3.61	3.56	ND	3.54	3.54	3.52	3.61	3.60
N-hexane	ND	3.14	3.08	ND	3.05	3.05	3.05	3.12	3.13
Methylcyclopentane	ND	1.64	1.59	ND	1.59	1.59	1.57	1.63	1.62
2,4-Dimethylpentane	ND	1.39	1.35	ND	1.38	1.37	1.34	1.39	1.38
Benzene	ND	2.56	2.39	ND	2.37	2.37	2.34	2.53	2.45
2-Methylhexane	ND	1.64	1.58	ND	1.57	1.57	1.55	1.62	1.54
2,3-Dimethylpentane	ND	1.63	1.57	ND	1.59	1.58	1.55	1.62	1.58
TAME	ND	13.96	13.36	ND	13.35	13.24	13.00	13.84	13.70
3-Methylhexane	ND	1.82	1.75	ND	1.69	1.76	1.74	1.81	1.80
Isooctane	ND	2.01	1.92	ND	1.97	1.94	1.92	1.96	1.98
Toluene	ND	3.73	3.40	ND	3.49	3.45	3.36	3.67	3.54
Total	0.00	98.66	98.69	0.00	98.69	98.74	98.71	98.66	98.67

ND = not detected

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Table III-I. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 61

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1009	Sample 2009	Sample 3009	Sample 4009	TM Standard 2	Spiked Control 2
Compound	004_002	004_003	004_004	004_005	004_006	004_007	004_008	004_009	004_010
Isobutane	ND	1.56	1.58	ND	1.73	1.82	1.82	1.53	1.53
N-Butane	ND	8.89	8.98	ND	9.54	9.82	9.85	8.82	8.78
3-Methyl-1-butene	ND	0.36	0.36	ND	0.37	0.37	0.37	0.35	0.34
Isopentane	ND	33.70	33.65	ND	34.15	34.29	34.34	33.65	33.47
N-Pentane	ND	7.68	7.73	ND	7.67	7.56	7.67	7.78	7.55
Trans-2-pentene	ND	1.68	1.60	ND	1.69	1.66	1.66	1.64	1.68
2,3-Dimethylbutane	ND	2.05	1.98	ND	2.02	1.98	2.02	2.04	2.06
2-Methylpentane	ND	6.23	6.21	ND	6.11	5.99	6.10	6.23	6.27
3-Methylpentane	ND	3.61	3.61	ND	3.54	3.54	3.52	3.61	3.64
N-hexane	ND	3.13	3.13	ND	3.05	3.05	3.04	3.12	3.15
Methylcyclopentane	ND	1.62	1.62	ND	1.58	1.58	1.57	1.62	1.64
2,4-Dimethylpentane	ND	1.37	1.39	ND	1.38	1.37	1.35	1.42	1.41
Benzene	ND	2.52	2.45	ND	2.35	2.34	2.34	2.51	2.49
2-Methylhexane	ND	1.61	1.63	ND	1.56	1.56	1.55	1.62	1.65
2,3-Dimethylpentane	ND	1.60	1.62	ND	1.57	1.56	1.49	1.61	1.64
TAME	ND	13.76	13.75	ND	13.27	13.11	13.08	13.76	13.93
3-Methylhexane	ND	1.80	1.81	ND	1.76	1.76	1.73	1.80	1.84
Isooctane	ND	1.96	1.98	ND	1.96	1.94	1.90	1.96	2.03
Toluene	ND	3.61	3.57	ND	3.44	3.37	3.34	3.60	3.60
Total	0.00	98.74	98.65	0.00	98.74	98.67	98.74	98.67	98.70

ND = not detected

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Table III-J. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 68
Area %

	Control 1	TM Standard 1	Spiked Control 1	Sample 1010	Sample 2010	Sample 3010	Sample 4010D-1 ^a	TM Standard 2	Spiked Control 2
Compound	005_002	005_003	005_004	005_005	005_006	005_007	005_010	005_009	005_011
Isobutane	ND	1.62	1.63	ND	1.68	1.79	1.84	1.59	1.63
N-Butane	ND	9.10	9.13	ND	9.36	9.73	9.90	8.97	9.12
3-Methyl-1-butene	ND	0.36	0.36	ND	0.36	0.36	0.30	0.33	0.31
Isopentane	ND	33.54	33.57	ND	33.87	33.96	34.36	33.61	33.64
N-Pentane	ND	7.60	7.55	ND	7.52	7.59	7.62	7.49	7.61
Trans-2-pentene	ND	1.90	1.74	ND	1.78	1.79	1.68	1.79	1.67
2,3-Dimethylbutane	ND	2.01	1.98	ND	1.96	2.01	1.99	2.00	2.00
2-Methylpentane	ND	6.17	6.20	ND	6.16	6.07	6.08	6.19	6.19
3-Methylpentane	ND	3.58	3.59	ND	3.56	3.51	3.51	3.59	3.59
N-hexane	ND	3.09	3.13	ND	3.08	3.04	3.02	3.12	3.11
Methylcyclopentane	ND	1.61	1.62	ND	1.60	1.58	1.57	1.62	1.61
2,4-Dimethylpentane	ND	1.37	1.43	ND	1.42	1.37	1.38	1.42	1.44
Benzene	ND	2.50	2.45	ND	2.37	2.36	2.32	2.51	2.45
2-Methylhexane	ND	1.60	1.62	ND	1.58	1.56	1.53	1.61	1.62
2,3-Dimethylpentane	ND	1.59	1.61	ND	1.60	1.56	1.54	1.61	1.61
TAME	ND	13.69	13.70	ND	13.44	13.28	13.04	13.79	13.68
3-Methylhexane	ND	1.79	1.81	ND	1.79	1.76	1.73	1.80	1.81
Isooctane	ND	1.95	1.98	ND	1.98	1.94	1.90	1.96	1.99
Toluene	ND	3.62	3.55	ND	3.51	3.46	3.33	3.64	3.56
Total	0.00	98.69	98.65	0.00	98.62	98.72	98.64	98.64	98.64

ND = not detected.

^a Results were reported from this duplicate sample because the original sample was suspect.

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Table III-K. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 75

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1011	Sample 2011	Sample 3011	Sample 4011	TM Standard 2	Spiked Control 2
Compound	006_002	006_003	006_004	006_005	006_006	006_007	006_008	006_009	006_010
Isobutane	ND	1.57	1.64	ND	1.82	1.84	1.80	1.55	1.59
N-Butane	ND	8.87	9.18	ND	9.82	9.90	10.00	9.02	9.19
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.37	0.36	0.35	0.35
Isopentane	ND	33.33	33.64	ND	34.08	34.19	33.93	33.14	33.37
N-Pentane	ND	7.39	7.49	ND	7.44	7.46	7.41	7.36	7.54
Trans-2-pentene	ND	1.94	1.85	ND	1.92	1.97	1.79	1.91	1.85
2,3-Dimethylbutane	ND	2.02	2.04	ND	1.94	1.95	1.93	1.98	2.03
2-Methylpentane	ND	6.19	6.18	ND	6.07	6.05	6.05	6.16	6.16
3-Methylpentane	ND	3.60	3.58	ND	3.51	3.50	3.50	3.58	3.57
N-hexane	ND	3.13	3.11	ND	3.02	3.02	3.03	3.11	3.10
Methylcyclopentane	ND	1.63	1.62	ND	1.57	1.56	1.57	1.62	1.61
2,4-Dimethylpentane	ND	1.44	1.39	ND	1.40	1.38	1.40	1.46	1.45
Benzene	ND	2.54	2.44	ND	2.34	2.34	2.36	2.53	2.44
2-Methylhexane	ND	1.63	1.61	ND	1.55	1.54	1.56	1.62	1.61
2,3-Dimethylpentane	ND	1.62	1.61	ND	1.56	1.55	1.57	1.64	1.63
TAME	ND	13.89	13.66	ND	13.15	13.07	13.17	13.90	13.67
3-Methylhexane	ND	1.82	1.80	ND	1.75	1.73	1.76	1.83	1.82
Isooctane	ND	2.00	1.99	ND	1.94	1.90	1.99	2.07	2.06
Toluene	ND	3.69	3.55	ND	3.39	3.33	3.47	3.77	3.64
Total	0.00	98.65	98.74	0.00	98.64	98.65	98.65	98.60	98.68

ND = not detected.

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Table III-L. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 82

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1012	Sample 2012	Sample 3012	Sample 4012	TM Standard 2	Spiked Control 2
Compound	007_002	007_003	007_004	007_005	007_006	007_007	007_008	007_009	007_010
Isobutane	ND	1.56	1.64	ND	1.70	1.80	1.78	1.59	1.55
N-Butane	ND	9.02	9.15	ND	9.49	9.84	9.65	8.92	8.89
3-Methyl-1-butene	ND	0.33	0.36	ND	0.36	0.36	0.35	0.33	0.32
Isopentane	ND	33.10	33.56	ND	33.67	33.95	33.78	33.29	33.40
N-Pentane	ND	7.39	7.53	ND	7.46	7.54	7.53	7.45	7.59
Trans-2-pentene	ND	1.87	1.86	ND	1.80	1.87	1.88	1.89	1.80
2,3-Dimethylbutane	ND	2.01	2.01	ND	1.99	1.95	1.96	1.96	2.05
2-Methylpentane	ND	6.17	6.14	ND	6.13	6.05	6.06	6.15	6.20
3-Methylpentane	ND	3.59	3.56	ND	3.56	3.51	3.51	3.57	3.60
N-hexane	ND	3.11	3.09	ND	3.06	3.02	3.03	3.10	3.13
Methylcyclopentane	ND	1.63	1.60	ND	1.60	1.58	1.58	1.62	1.62
2,4-Dimethylpentane	ND	1.46	1.45	ND	1.37	1.41	1.41	1.45	1.46
Benzene	<LOQ	2.54	2.43	<LOQ	2.40	2.35	2.37	2.51	2.46
2-Methylhexane	ND	1.62	1.60	ND	1.59	1.56	1.57	1.62	1.63
2,3-Dimethylpentane	ND	1.64	1.62	ND	1.61	1.58	1.59	1.64	1.64
TAME	ND	13.90	13.58	ND	13.34	13.04	13.22	13.84	13.77
3-Methylhexane	ND	1.83	1.80	ND	1.80	1.76	1.77	1.83	1.83
Isooctane	ND	2.07	2.04	ND	2.04	2.00	2.01	2.06	2.08
Toluene	ND	3.78	3.61	ND	3.53	3.42	3.48	3.76	3.67
Total	0.00	98.62	98.63	0.00	98.50	98.59	98.53	98.58	98.69

ND = not detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

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Table III-M. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 89

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1013	Sample 2013	Sample 3013	Sample 4013	TM Standard 2	Spiked Control 2
Compound	008_002	008_003	008_004	008_005	008_006	008_007	008_008	008_009	008_010
Isobutane	ND	1.48	1.54	ND	1.72	1.78	1.76	1.23	1.61
N-Butane	ND	8.41	8.78	ND	9.50	9.66	9.65	8.52	9.25
3-Methyl-1-butene	ND	0.35	0.35	ND	0.37	0.37	0.37	0.32	0.36
Isopentane	ND	33.31	33.49	ND	34.38	34.05	34.33	31.19	33.78
N-Pentane	ND	7.74	7.76	ND	7.76	7.58	7.60	8.25	7.50
Trans-2-pentene	ND	1.99	1.94	ND	1.71	1.76	1.77	2.72	2.00
2,3-Dimethylbutane	ND	1.98	2.04	ND	2.04	1.96	2.01	2.01	2.02
2-Methylpentane	ND	6.22	6.21	ND	6.21	6.11	6.14	6.12	6.16
3-Methylpentane	ND	3.60	3.60	ND	3.60	3.52	3.56	3.56	3.57
N-hexane	ND	3.10	3.10	ND	2.97	3.05	3.06	3.10	3.07
Methylcyclopentane	ND	1.61	1.61	ND	1.41	1.58	1.59	1.61	1.60
2,4-Dimethylpentane	ND	1.48	1.45	ND	1.40	1.38	1.35	1.47	1.44
Benzene	ND	2.49	2.44	ND	2.40	2.36	2.36	2.50	2.41
2-Methylhexane	ND	1.63	1.60	ND	1.59	1.57	1.55	1.58	1.56
2,3-Dimethylpentane	ND	1.64	1.62	ND	1.57	1.55	1.55	1.64	1.58
TAME	ND	13.86	13.57	ND	13.34	13.17	13.06	14.03	13.37
3-Methylhexane	ND	1.83	1.80	ND	1.76	1.75	1.72	1.85	1.77
Isooctane	ND	2.07	2.03	ND	1.92	1.91	1.89	2.05	2.01
Toluene	ND	3.54	3.56	ND	3.37	3.34	3.26	3.79	3.50
Total	0.00	98.33	98.49	0.00	99.02	98.45	98.58	97.54	98.56

ND = not detected.

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Table III-N. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 96

Area %									
	Control 1	TM Standard 1	Spiked Control 1	Sample 1014	Sample 2014	Sample 3014	Sample 4014	TM Standard 2	Spiked Control 2
Compound	009_002	009_003	009_004	009_005	009_006	009_007	009_008	009_009	009_010
Isobutane	ND	1.65	1.64	ND	1.73	1.83	1.85	1.63	1.69
N-Butane	ND	9.10	9.14	ND	9.55	9.86	9.90	9.10	9.32
3-Methyl-1-butene	ND	0.36	0.36	ND	0.36	0.37	0.37	0.36	0.36
Isopentane	ND	33.30	33.39	ND	33.88	34.04	34.18	33.43	33.62
N-Pentane	ND	7.59	7.54	ND	7.62	7.55	7.54	7.63	7.60
Trans-2-pentene	ND	1.73	1.72	ND	1.71	1.80	1.91	1.81	1.77
2,3-Dimethylbutane	ND	2.10	2.11	ND	1.99	1.93	1.93	1.97	1.98
2-Methylpentane	ND	6.13	6.16	ND	6.11	6.05	6.05	6.14	6.13
3-Methylpentane	ND	3.56	3.58	ND	3.54	3.50	3.50	3.56	3.55
N-hexane	ND	3.08	3.10	ND	3.05	3.02	3.02	3.08	3.08
Methylcyclopentane	ND	1.61	1.62	ND	1.59	1.57	1.56	1.61	1.60
2,4-Dimethylpentane	ND	1.44	1.44	ND	1.42	1.40	1.36	1.43	1.43
Benzene	ND	2.51	2.46	ND	2.39	2.35	2.36	2.50	2.42
2-Methylhexane	ND	1.61	1.62	ND	1.58	1.55	1.55	1.60	1.60
2,3-Dimethylpentane	ND	1.61	1.63	ND	1.59	1.56	1.54	1.61	1.61
TAME	ND	13.80	13.74	ND	13.30	13.14	13.09	13.70	13.55
3-Methylhexane	ND	1.82	1.83	ND	1.78	1.74	1.72	1.80	1.80
Isooctane	ND	2.01	2.04	ND	1.98	1.95	1.89	1.99	2.00
Toluene	ND	3.74	3.65	ND	3.49	3.42	3.33	3.67	3.57
Total	0.00	98.75	98.77	0.00	98.66	98.63	98.65	98.62	98.68

ND = not detected.

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Table III-O. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 103

	Area %								
	Control 1	TM Standard 1	Spiked Control 1	Sample 1015	Sample 2015	Sample 3015	Sample 4015	TM Standard 2	Spiked Control 2
Compound	010_002	010_003	010_004	010_005	010_006	010_007	010_008	010_009	010_010
Isobutane	ND	1.65	0.56	ND	1.76	1.64	1.56	1.70	1.41
N-Butane	ND	9.29	5.07	ND	10.15	9.22	10.26	9.49	8.63
3-Methyl-1-butene	ND	0.36	0.31	ND	0.40	0.36	0.43	0.37	0.36
Isopentane	ND	33.46	30.61	ND	36.96	33.48	39.17	33.99	33.62
N-Pentane	ND	6.86	6.92	ND	7.43	6.85	7.57	7.02	7.00
Trans-2-pentene	ND	2.71	2.60	ND	2.93	2.66	3.01	2.64	2.60
2,3-Dimethylbutane	ND	1.87	2.13	ND	1.93	1.92	1.81	1.87	1.90
2-Methylpentane	ND	5.56	6.28	ND	5.80	5.64	5.16	5.54	5.65
3-Methylpentane	ND	3.56	4.09	ND	3.42	3.62	3.29	3.54	3.62
N-hexane	ND	3.22	3.75	ND	2.77	3.26	2.64	3.18	3.27
Methylcyclopentane	ND	1.61	1.91	ND	1.64	1.64	1.58	1.58	1.63
2,4-Dimethylpentane	ND	1.36	1.67	ND	1.07	1.47	1.07	1.38	1.43
Benzene	<LOQ	2.46	2.87	<LOQ	2.10	2.41	1.97	2.42	2.43
2-Methylhexane	ND	1.63	1.99	ND	1.29	1.65	1.25	1.60	1.69
2,3-Dimethylpentane	ND	1.66	2.02	ND	1.34	1.69	1.29	1.62	1.70
TAME	ND	13.90	16.63	ND	11.68	13.82	10.91	13.47	14.02
3-Methylhexane	ND	1.86	2.23	ND	1.46	1.86	1.40	1.78	1.88
Isooctane	ND	2.03	2.49	ND	1.58	2.04	1.52	1.96	2.09
Toluene	ND	3.84	4.62	ND	2.74	3.68	2.80	3.68	3.84
Total	0.00	98.89	98.75	0.00	98.45	98.91	98.69	98.83	98.77

ND = not detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test material standard

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Table III-P. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 116
Area %

	Control 1	TM Standard 1	Spiked Control 1	Sample 1016D-1 ^a	Sample 2016D-1 ^a	Sample 3016D-1 ^a	Sample 4016D-1 ^a	TM Standard 2	Spiked Control 2 ^b
Compound	012_002	012_003	012_004	012_005	012_006	012_007	012_008	012_013	012_015
Isobutane	ND	1.56	1.63	ND	1.61	1.61	1.79	1.59	1.59
N-Butane	ND	8.76	9.01	ND	9.09	9.16	9.77	9.01	8.94
3-Methyl-1-butene	ND	0.35	0.36	ND	0.36	0.36	0.37	0.35	0.35
Isopentane	ND	33.12	33.30	ND	33.56	33.48	33.78	33.14	32.99
N-Pentane	ND	7.12	6.99	ND	6.92	6.91	6.95	7.04	6.92
Trans-2-pentene	ND	2.41	2.53	ND	2.54	2.47	2.50	2.47	2.54
2,3-Dimethylbutane	ND	1.94	1.96	ND	1.87	1.96	1.93	1.95	1.97
2-Methylpentane	ND	5.66	5.62	ND	5.66	5.65	5.54	5.63	5.95
3-Methylpentane	ND	3.63	3.62	ND	3.62	3.62	3.55	3.61	3.61
N-hexane	ND	3.15	3.14	ND	3.15	3.15	3.06	3.13	3.14
Methylcyclopentane	ND	1.64	1.64	ND	1.64	1.64	1.60	1.63	1.63
2,4-Dimethylpentane	ND	1.52	1.51	ND	1.51	1.51	1.47	1.52	1.51
Benzene	<LOQ	2.52	2.45	<LOQ	2.44	2.43	2.37	2.51	2.42
2-Methylhexane	ND	1.60	1.59	ND	1.65	1.58	1.54	1.59	1.59
2,3-Dimethylpentane	ND	1.64	1.64	ND	1.68	1.63	1.58	1.63	1.63
TAME	ND	14.14	13.96	ND	13.84	13.86	13.45	14.04	13.92
3-Methylhexane	ND	1.88	1.88	ND	1.86	1.86	1.81	1.87	1.87
Isooctane	ND	2.06	2.06	ND	2.04	2.04	1.98	2.04	2.05
Toluene	ND	3.92	3.78	ND	3.71	3.70	3.60	3.91	3.76
Total	0.00	98.62	98.67	0.00	98.75	98.62	98.64	98.66	98.38

ND = not detected. <LOQ = Less than limit of quantification = less than 25% of the area count of the component in the test material standard.

^a Results were reported from this duplicate sample because the original sample was suspect. ^b Spiked Control-2 re-injected due to a power outage.

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Table III-Q. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 117
Area %

	Control 1	TM Standard 1	Spiked Control 1	Sample 1017	Sample 2017	Sample 3017	Sample 4017	TM Standard 2	Spiked Control 2
Compound	012_002	012_003	012_004	012_009	012_010	012_011	012_012	012_013	012_015
Isobutane	ND	1.56	1.63	ND	1.83	1.81	1.81	1.59	1.59
N-Butane	ND	8.76	9.01	ND	9.91	9.86	9.89	9.01	8.94
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.37	0.37	0.35	0.35
Isopentane	ND	33.12	33.30	ND	34.02	33.81	34.06	33.14	32.99
N-Pentane	ND	7.12	6.99	ND	6.93	7.11	7.16	7.04	6.92
Trans-2-pentene	ND	2.41	2.53	ND	2.64	2.39	2.43	2.47	2.54
2,3-Dimethylbutane	ND	1.94	1.96	ND	1.52	1.92	1.91	1.95	1.97
2-Methylpentane	ND	5.66	5.62	ND	5.57	5.53	5.53	5.63	5.95
3-Methylpentane	ND	3.63	3.62	ND	3.56	3.54	3.53	3.61	3.61
N-hexane	ND	3.15	3.14	ND	3.09	3.07	3.05	3.13	3.14
Methylcyclopentane	ND	1.64	1.64	ND	1.60	1.59	1.59	1.63	1.63
2,4-Dimethylpentane	ND	1.52	1.51	ND	1.48	1.47	1.46	1.52	1.51
Benzene	<LOQ	2.52	2.45	<LOQ	2.37	2.36	2.34	2.51	2.42
2-Methylhexane	ND	1.60	1.59	ND	1.54	1.53	1.51	1.59	1.59
2,3-Dimethylpentane	ND	1.64	1.64	ND	1.58	1.57	1.55	1.63	1.63
TAME	ND	14.14	13.96	ND	13.48	13.41	13.27	14.04	13.92
3-Methylhexane	ND	1.88	1.88	ND	1.81	1.80	1.77	1.87	1.87
Isooctane	ND	2.06	2.06	ND	1.99	1.97	1.93	2.04	2.05
Toluene	ND	3.92	3.78	ND	3.61	3.57	3.50	3.91	3.76
Total	0.00	98.62	98.67	0.00	98.90	98.68	98.66	98.66	98.38

ND = not detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test material standard

^a Spiked Control-2 was re-injected due to a power outage.

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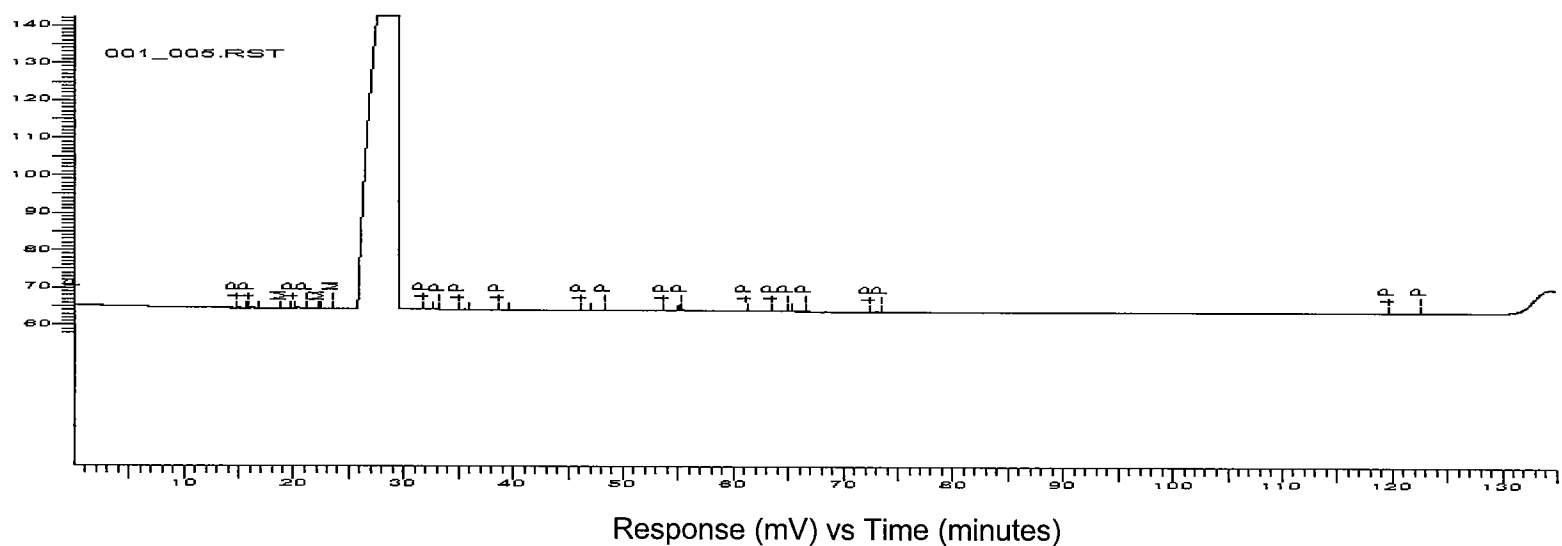
Table III-R. Chamber Components Confirmation
Area Percent of Gasoline TAME Vapor Condensate
Exposure 123

	Area %							
	Control 1	TM Standard 1	Spiked Control 1	Sample 1018	Sample 3018	Sample 4018	TM Standard 2	Spiked Control 2
Compound	013_002	013_003	013_004	013_005	013_006	013_007	013_008	013_009
Isobutane	ND	1.58	1.63	ND	1.76	1.77	1.54	1.61
N-Butane	ND	8.77	9.01	ND	9.50	9.56	8.67	8.96
3-Methyl-1-butene	ND	0.35	0.36	ND	0.36	0.36	0.35	0.35
Isopentane	ND	32.81	33.16	ND	33.54	33.67	32.90	33.19
N-Pentane	ND	6.83	6.88	ND	6.82	7.07	7.07	7.06
Trans-2-pentene	ND	2.62	2.39	ND	2.40	2.45	2.48	2.48
2,3-Dimethylbutane	ND	1.98	1.95	ND	1.96	1.95	1.96	1.96
2-Methylpentane	ND	5.67	5.64	ND	5.56	5.55	5.65	5.63
3-Methylpentane	ND	3.64	3.61	ND	3.56	3.55	3.63	3.61
N-hexane	ND	3.17	3.14	ND	3.08	3.08	3.14	3.13
Methylcyclopentane	ND	1.66	1.64	ND	1.61	1.60	1.65	1.64
2,4-Dimethylpentane	ND	1.55	1.52	ND	1.50	1.49	1.54	1.52
Benzene	<LOQ	2.55	2.46	<LOQ	2.40	2.39	2.55	2.45
2-Methylhexane	ND	1.61	1.67	ND	1.63	1.55	1.67	1.66
2,3-Dimethylpentane	ND	1.66	1.69	ND	1.66	1.59	1.70	1.68
TAME	ND	14.27	14.02	ND	13.70	13.59	14.20	13.98
3-Methylhexane	ND	1.90	1.89	ND	1.84	1.82	1.89	1.88
Isooctane	ND	2.08	2.10	ND	2.03	2.00	2.08	2.06
Toluene	ND	3.96	3.81	ND	3.69	3.64	3.92	3.75
Total	0.00	98.66	98.57	0.00	98.60	98.68	98.59	98.60

ND = not detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test material standard

	Analytical Report	Appendix B
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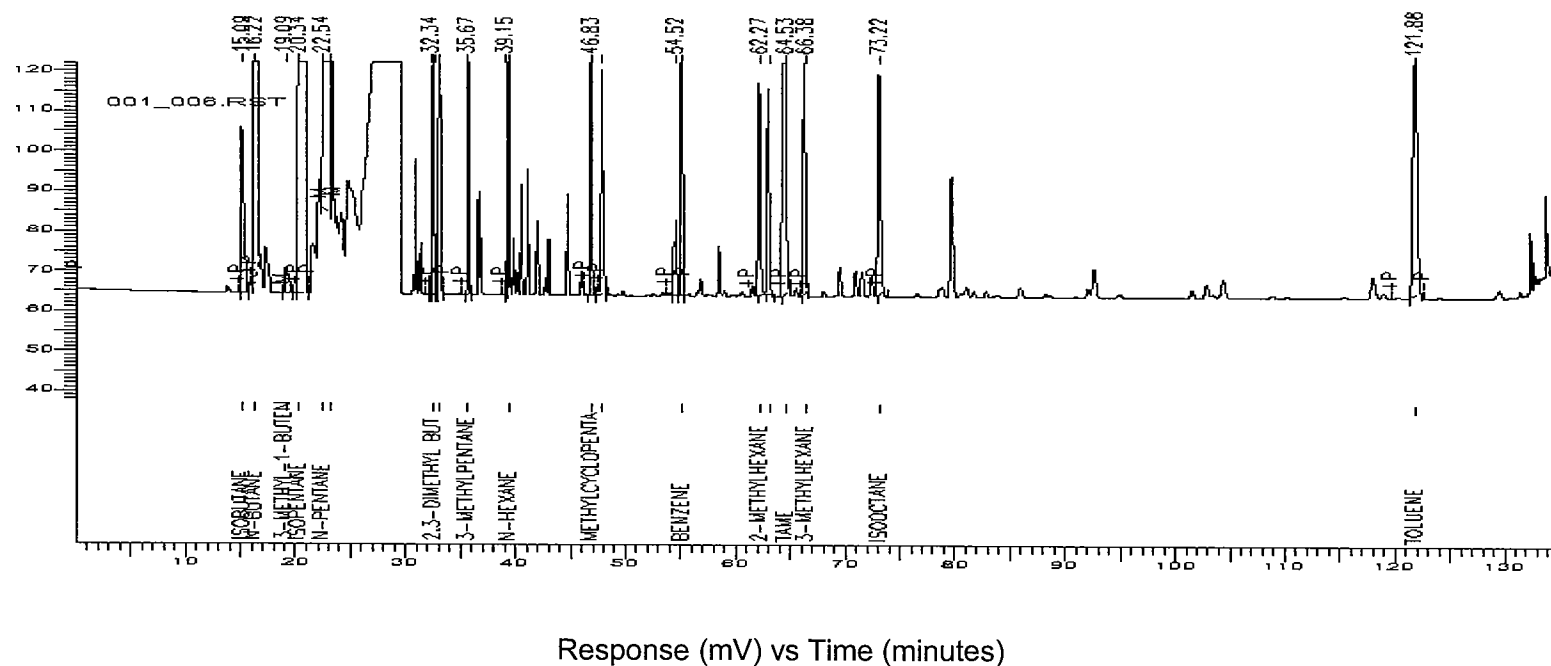
Figure I. A Typical Gas Chromatogram of Sample 1006 (Group I) Charcoal-Tube



Analytical Report

Appendix B

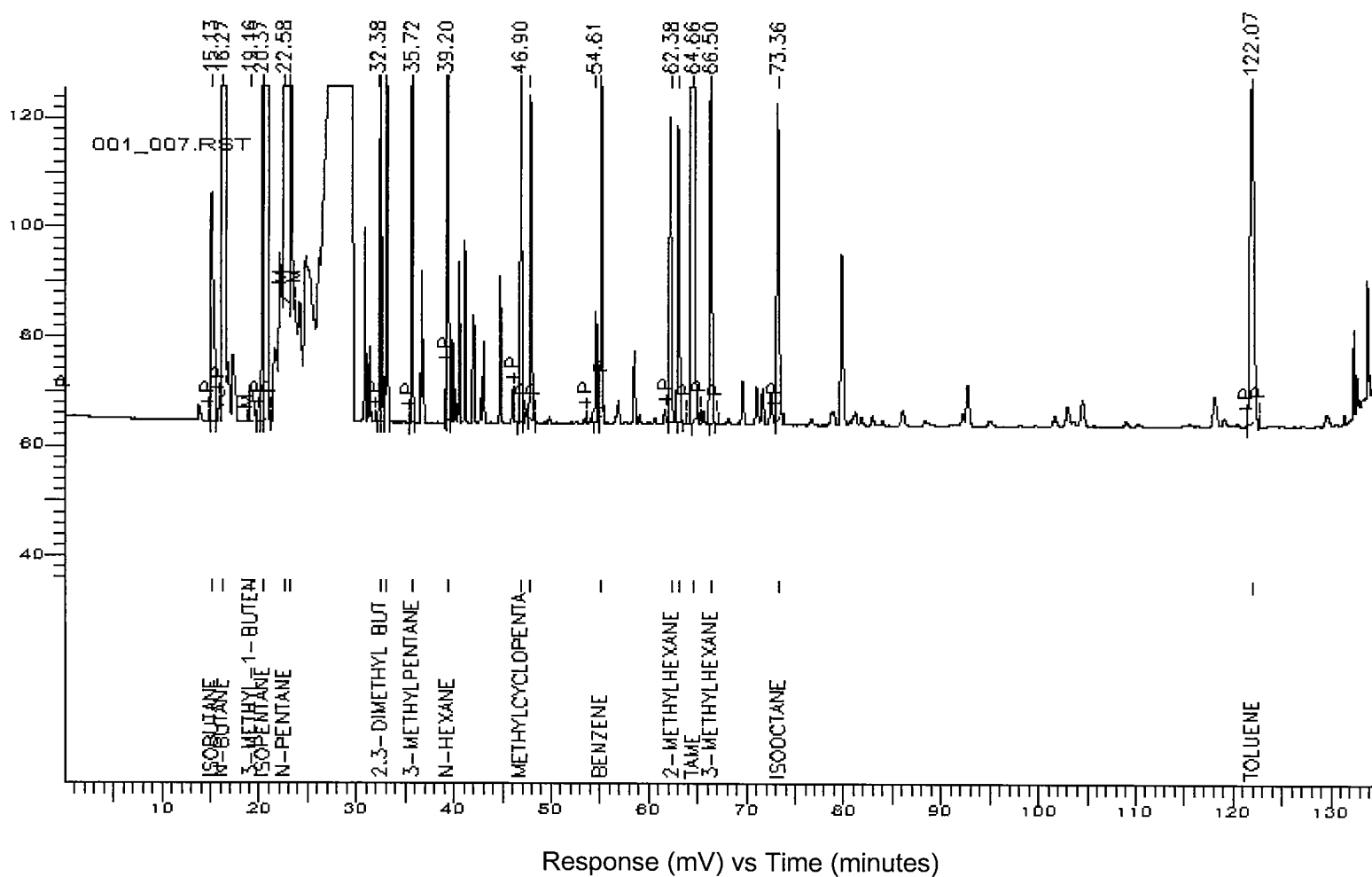
Figure II. A Typical Gas Chromatogram of Sample 2006 (Group II) Charcoal-Tube



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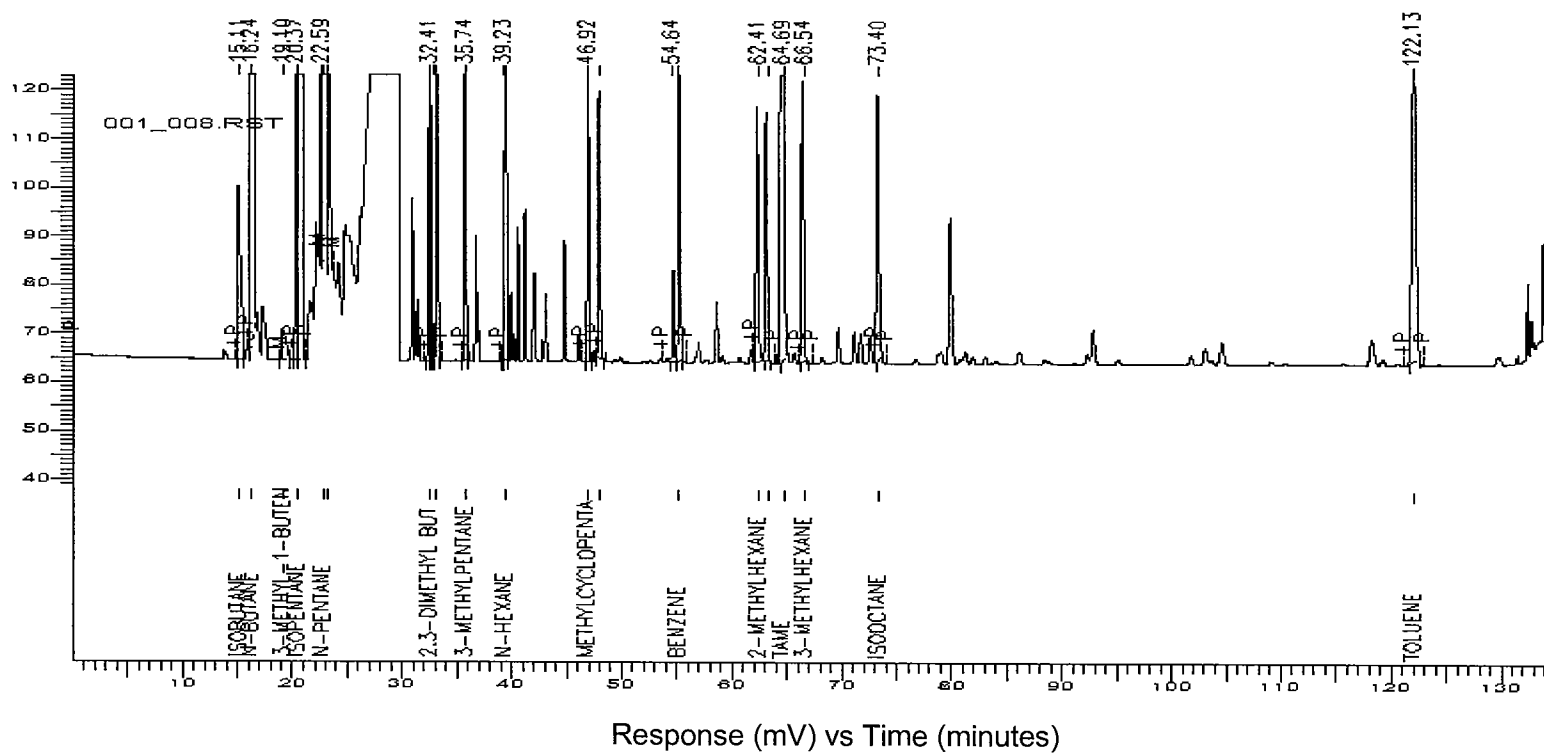
Figure III. A Typical Gas Chromatogram of Sample 3006 (Group III) Charcoal-Tube



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Figure IV. A Typical Gas Chromatogram of Sample 4006 (Group IV) Charcoal-Tube



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INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES GROUP I 0 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
1101	TERMINAL SACRIFICE	10-DEC-01	110
1102	TERMINAL SACRIFICE	10-DEC-01	110
1103	TERMINAL SACRIFICE	10-DEC-01	110
1104	TERMINAL SACRIFICE	10-DEC-01	110
1105	TERMINAL SACRIFICE	10-DEC-01	110
1106	TERMINAL SACRIFICE	10-DEC-01	110
1107	TERMINAL SACRIFICE	10-DEC-01	110
1108	TERMINAL SACRIFICE	10-DEC-01	110
1109	TERMINAL SACRIFICE	10-DEC-01	110
1110	TERMINAL SACRIFICE	10-DEC-01	110
1111	TERMINAL SACRIFICE	10-DEC-01	110
1112	TERMINAL SACRIFICE	10-DEC-01	110
1113	TERMINAL SACRIFICE	10-DEC-01	110
1114	TERMINAL SACRIFICE	11-DEC-01	111
1115	TERMINAL SACRIFICE	11-DEC-01	111
1116	TERMINAL SACRIFICE	11-DEC-01	111
1117	TERMINAL SACRIFICE	11-DEC-01	111
1118	TERMINAL SACRIFICE	11-DEC-01	111
1119	TERMINAL SACRIFICE	11-DEC-01	111
1120	TERMINAL SACRIFICE	11-DEC-01	111
1121	TERMINAL SACRIFICE	11-DEC-01	111
1122	TERMINAL SACRIFICE	11-DEC-01	111
1123	TERMINAL SACRIFICE	11-DEC-01	111
1124	TERMINAL SACRIFICE	11-DEC-01	111
1125	TERMINAL SACRIFICE	11-DEC-01	111
1126	TERMINAL SACRIFICE	11-DEC-01	111

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INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES GROUP II 2000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
2101	TERMINAL SACRIFICE	10-DEC-01	110
2102	TERMINAL SACRIFICE	10-DEC-01	110
2103	TERMINAL SACRIFICE	10-DEC-01	110
2104	TERMINAL SACRIFICE	10-DEC-01	110
2105	TERMINAL SACRIFICE	10-DEC-01	110
2106	TERMINAL SACRIFICE	10-DEC-01	110
2107	TERMINAL SACRIFICE	10-DEC-01	110
2108	TERMINAL SACRIFICE	10-DEC-01	110
2109	TERMINAL SACRIFICE	10-DEC-01	110
2110	TERMINAL SACRIFICE	10-DEC-01	110
2111	TERMINAL SACRIFICE	10-DEC-01	110
2112	TERMINAL SACRIFICE	10-DEC-01	110
2113	TERMINAL SACRIFICE	10-DEC-01	110
2114	TERMINAL SACRIFICE	11-DEC-01	111
2115	TERMINAL SACRIFICE	11-DEC-01	111
2116	TERMINAL SACRIFICE	11-DEC-01	111
2117	TERMINAL SACRIFICE	11-DEC-01	111
2118	TERMINAL SACRIFICE	11-DEC-01	111
2119	TERMINAL SACRIFICE	11-DEC-01	111
2120	TERMINAL SACRIFICE	11-DEC-01	111
2121	TERMINAL SACRIFICE	11-DEC-01	111
2122	TERMINAL SACRIFICE	11-DEC-01	111
2123	TERMINAL SACRIFICE	11-DEC-01	111
2124	TERMINAL SACRIFICE	11-DEC-01	111
2125	TERMINAL SACRIFICE	11-DEC-01	111
2126	TERMINAL SACRIFICE	11-DEC-01	111

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INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES GROUP III 10000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
3101	TERMINAL SACRIFICE	10-DEC-01	110
3102	TERMINAL SACRIFICE	10-DEC-01	110
3103	TERMINAL SACRIFICE	10-DEC-01	110
3104	TERMINAL SACRIFICE	10-DEC-01	110
3105	TERMINAL SACRIFICE	10-DEC-01	110
3106	TERMINAL SACRIFICE	10-DEC-01	110
3107	TERMINAL SACRIFICE	10-DEC-01	110
3108	TERMINAL SACRIFICE	10-DEC-01	110
3109	TERMINAL SACRIFICE	10-DEC-01	110
3110	TERMINAL SACRIFICE	10-DEC-01	110
3111	TERMINAL SACRIFICE	10-DEC-01	110
3112	TERMINAL SACRIFICE	10-DEC-01	110
3113	TERMINAL SACRIFICE	10-DEC-01	110
3114	TERMINAL SACRIFICE	11-DEC-01	111
3115	TERMINAL SACRIFICE	11-DEC-01	111
3116	TERMINAL SACRIFICE	11-DEC-01	111
3117	TERMINAL SACRIFICE	11-DEC-01	111
3118	TERMINAL SACRIFICE	11-DEC-01	111
3119	TERMINAL SACRIFICE	11-DEC-01	111
3120	TERMINAL SACRIFICE	11-DEC-01	111
3121	TERMINAL SACRIFICE	11-DEC-01	111
3122	TERMINAL SACRIFICE	11-DEC-01	111
3123	TERMINAL SACRIFICE	11-DEC-01	111
3124	TERMINAL SACRIFICE	11-DEC-01	111
3125	TERMINAL SACRIFICE	11-DEC-01	111
3126	TERMINAL SACRIFICE	11-DEC-01	111

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INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES GROUP IV 20000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
4101	TERMINAL SACRIFICE	10-DEC-01	110
4102	TERMINAL SACRIFICE	10-DEC-01	110
4103	TERMINAL SACRIFICE	10-DEC-01	110
4104	TERMINAL SACRIFICE	10-DEC-01	110
4105	TERMINAL SACRIFICE	10-DEC-01	110
4106	TERMINAL SACRIFICE	10-DEC-01	110
4107	TERMINAL SACRIFICE	10-DEC-01	110
4108	TERMINAL SACRIFICE	10-DEC-01	110
4109	TERMINAL SACRIFICE	10-DEC-01	110
4110	TERMINAL SACRIFICE	10-DEC-01	110
4111	TERMINAL SACRIFICE	10-DEC-01	110
4112	TERMINAL SACRIFICE	10-DEC-01	110
4113	TERMINAL SACRIFICE	10-DEC-01	110
4114	TERMINAL SACRIFICE	11-DEC-01	111
4115	TERMINAL SACRIFICE	11-DEC-01	111
4116	TERMINAL SACRIFICE	11-DEC-01	111
4117	TERMINAL SACRIFICE	11-DEC-01	111
4118	TERMINAL SACRIFICE	11-DEC-01	111
4119	TERMINAL SACRIFICE	11-DEC-01	111
4120	TERMINAL SACRIFICE	11-DEC-01	111
4121	TERMINAL SACRIFICE	11-DEC-01	111
4122	TERMINAL SACRIFICE	11-DEC-01	111
4123	TERMINAL SACRIFICE	11-DEC-01	111
4124	TERMINAL SACRIFICE	11-DEC-01	111
4125	TERMINAL SACRIFICE	11-DEC-01	111
4126	TERMINAL SACRIFICE	11-DEC-01	111

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL ANIMAL TERMINATION HISTORY^a

FEMALES GROUP I 0 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
1601	TERMINAL SACRIFICE	21-DEC-01	121	P
1602	TERMINAL SACRIFICE	23-DEC-01	123	P
1603	TERMINAL SACRIFICE	20-DEC-01	120	P
1604	TERMINAL SACRIFICE	25-DEC-01	125	P
1605	TERMINAL SACRIFICE	20-DEC-01	120	P
1606	DIED FOUND DEAD	24-NOV-01	94	P
1607	TERMINAL SACRIFICE	21-DEC-01	121	P
1608	TERMINAL SACRIFICE	20-DEC-01	120	P
1609	TERMINAL SACRIFICE	28-NOV-01	98	NP
1610	TERMINAL SACRIFICE	25-DEC-01	125	P
1611	TLL TERMINAL SACRIFICE	19-DEC-01	119	P
1612	TERMINAL SACRIFICE	21-DEC-01	121	P
1613	TERMINAL SACRIFICE	21-DEC-01	121	P
1614	TERMINAL SACRIFICE	21-DEC-01	121	P
1615	TERMINAL SACRIFICE	23-DEC-01	123	P
1616	TERMINAL SACRIFICE	22-DEC-01	122	P
1617	TERMINAL SACRIFICE	21-DEC-01	121	P
1618	TERMINAL SACRIFICE	21-DEC-01	121	P
1619	TERMINAL SACRIFICE	22-DEC-01	122	P
1620	TERMINAL SACRIFICE	21-DEC-01	121	P
1621	TERMINAL SACRIFICE	23-DEC-01	123	P
1622	TERMINAL SACRIFICE	21-DEC-01	121	P
1623	TERMINAL SACRIFICE	23-DEC-01	123	P
1624	TERMINAL SACRIFICE	21-DEC-01	121	P
1625	TERMINAL SACRIFICE	28-NOV-01	98	NP
1626	TERMINAL SACRIFICE	22-DEC-01	122	P

NP=NOT PREGNANT, P=PREGNANT

DIED=FOUND DEAD TLL=TOTAL LITTER LOSS

^aAll 28-day old pups from the dam were euthanized the same day as their mothers.

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INDIVIDUAL ANIMAL TERMINATION HISTORY^a

FEMALES GROUP II 2000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
2601	TERMINAL SACRIFICE	20-DEC-01	120	P
2602	TERMINAL SACRIFICE	21-DEC-01	121	P
2603	TERMINAL SACRIFICE	21-DEC-01	121	P
2604	TERMINAL SACRIFICE	21-DEC-01	121	P
2605	TERMINAL SACRIFICE	20-DEC-01	120	P
2606	TERMINAL SACRIFICE	19-DEC-01	119	P
2607	TERMINAL SACRIFICE	23-DEC-01	123	P
2608	TERMINAL SACRIFICE	21-DEC-01	121	P
2609	TERMINAL SACRIFICE	25-NOV-01	95	NP
2610	TERMINAL SACRIFICE	22-DEC-01	122	P
2611	TERMINAL SACRIFICE	20-DEC-01	120	P
2612	TERMINAL SACRIFICE	21-DEC-01	121	P
2613	TERMINAL SACRIFICE	21-DEC-01	121	P
2614	TERMINAL SACRIFICE	23-DEC-01	123	P
2615	TERMINAL SACRIFICE	22-DEC-01	122	P
2616	TERMINAL SACRIFICE	19-DEC-01	119	P
2617	TERMINAL SACRIFICE	21-DEC-01	121	P
2618	TERMINAL SACRIFICE	21-DEC-01	121	P
2619	TERMINAL SACRIFICE	22-DEC-01	122	P
2620	TERMINAL SACRIFICE	20-DEC-01	120	P
2621	TERMINAL SACRIFICE	20-DEC-01	120	P
2622	TERMINAL SACRIFICE	21-DEC-01	121	P
2623	TERMINAL SACRIFICE	23-DEC-01	123	P
2624	TERMINAL SACRIFICE	22-DEC-01	122	P
2625	TERMINAL SACRIFICE	23-DEC-01	123	P
2626	TERMINAL SACRIFICE	21-DEC-01	121	P

NP-NOT PREGNANT, P-PREGNANT

^aAll 28-day old pups from the dam were euthanized the same day as their mothers.

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL ANIMAL TERMINATION HISTORY^a

FEMALES GROUP III 10000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
3601	TERMINAL SACRIFICE	21-DEC-01	121	P
3602	TERMINAL SACRIFICE	20-DEC-01	120	P
3603	TERMINAL SACRIFICE	23-DEC-01	123	P
3604	TERMINAL SACRIFICE	22-DEC-01	122	P
3605	TERMINAL SACRIFICE	25-NOV-01	95	NP
3606	TERMINAL SACRIFICE	24-DEC-01	124	P
3607	TERMINAL SACRIFICE	20-DEC-01	120	P
3608	TERMINAL SACRIFICE	20-DEC-01	120	P
3609	TERMINAL SACRIFICE	20-DEC-01	120	P
3610	TERMINAL SACRIFICE	21-DEC-01	121	P
3611	TERMINAL SACRIFICE	20-DEC-01	120	P
3612	TERMINAL SACRIFICE	22-DEC-01	122	P
3613	TERMINAL SACRIFICE	22-DEC-01	122	P
3614	TERMINAL SACRIFICE	20-DEC-01	120	P
3615	TERMINAL SACRIFICE	20-DEC-01	120	P
3616	TERMINAL SACRIFICE	21-DEC-01	121	P
3617	TERMINAL SACRIFICE	21-DEC-01	121	P
3618	TERMINAL SACRIFICE	8-DEC-01	108	NP
3619	TERMINAL SACRIFICE	22-DEC-01	122	P
3620	TERMINAL SACRIFICE	20-DEC-01	120	P
3621	TERMINAL SACRIFICE	21-DEC-01	121	P
3622	TERMINAL SACRIFICE	20-DEC-01	120	P
3623	TERMINAL SACRIFICE	21-DEC-01	121	P
3624	TERMINAL SACRIFICE	21-DEC-01	121	P
3625	TERMINAL SACRIFICE	20-DEC-01	120	P
3626	TERMINAL SACRIFICE	20-DEC-01	120	P

NP-NOT PREGNANT, P-PREGNANT

^aAll 28-day old pups from the dam were euthanized the same day as their mothers.

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INDIVIDUAL ANIMAL TERMINATION HISTORY^a

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
4601	TERMINAL SACRIFICE	27-DEC-01	127	P
4602	NPAD ACCIDENTAL	27-OCT-01	66	-
4603	TERMINAL SACRIFICE	22-DEC-01	122	P
4604	TERMINAL SACRIFICE	21-DEC-01	121	P
4605	TERMINAL SACRIFICE	20-DEC-01	120	P
4606	TERMINAL SACRIFICE	22-DEC-01	122	P
4607	TERMINAL SACRIFICE	21-DEC-01	121	P
4608	TERMINAL SACRIFICE	23-DEC-01	123	P
4609	TERMINAL SACRIFICE	28-NOV-01	98	NP
4610	TERMINAL SACRIFICE	20-DEC-01	120	P
4611	TERMINAL SACRIFICE	22-DEC-01	122	P
4612	TERMINAL SACRIFICE	23-DEC-01	123	P
4613	TERMINAL SACRIFICE	24-DEC-01	124	P
4614	TERMINAL SACRIFICE	21-DEC-01	121	P
4615	TERMINAL SACRIFICE	21-DEC-01	121	P
4616	TERMINAL SACRIFICE	21-DEC-01	121	P
4617	TERMINAL SACRIFICE	25-NOV-01	95	NP
4618	TERMINAL SACRIFICE	21-DEC-01	121	P
4619	TERMINAL SACRIFICE	22-DEC-01	122	P
4620	TERMINAL SACRIFICE	21-DEC-01	121	P
4621	TERMINAL SACRIFICE	21-DEC-01	121	P
4622	TERMINAL SACRIFICE	21-DEC-01	121	P
4623	TERMINAL SACRIFICE	23-DEC-01	123	P
4624	TERMINAL SACRIFICE	22-DEC-01	122	P
4625	TERMINAL SACRIFICE	23-DEC-01	123	P
4626	TERMINAL SACRIFICE	21-DEC-01	121	P

NP-NOT PREGNANT, P-PREGNANT

NPAD=ACCIDENTAL DEATH, NOT PG

^aAll 28-day old pups from the dam were euthanized the same day as their mothers.

	Individual Weekly Clinical Findings Preface	Appendix D
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Note:

Due to the computer limitations of this appendix, if an animal died between two scheduled intervals, the day on which an animal was sacrificed was represented as the Study Day prior to their sacrifice. For example, if an animal was sacrificed on Study Day 109, it was exemplified as Study Day 105, rather than at the next appropriate interval (Day 112).

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES GROUP I 0 MG/M3

[illegible]

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		1	1
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1109	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1110	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1111	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1112	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1113	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1114	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - GENERAL		P	P	P	P	P	P	P	P					P	P	P	P	P		
1115	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT		P	P															P		
1116	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1117	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																					

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

12-OCT-2004 15:21

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																		1	1
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1118	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P					
	TERMINAL SACRIFICE																		P		
	MASS																		1	1	
	LOWER DORSAL																				
1119	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P		
1120	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P		
1121	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P		
1122	WITHIN NORMAL LIMITS		P	P	P	P										P	P	P			
	TERMINAL SACRIFICE																		P		
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2	2	2	2	2					
1123	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P		
1124	WITHIN NORMAL LIMITS		P	P	P	P			P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P		
	ALOPECIA - EXTREMITIES/SNOUT						2	2													
1125	WITHIN NORMAL LIMITS		P	P	P																
	TERMINAL SACRIFICE																		P		
	ALOPECIA - EXTREMITIES/SNOUT						2	3	3	3	3	3	3	3	3	3	3	3			
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																					

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

		DAY OF	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
ANIMAL#	OBSERVATIONS	STUDY	7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2

1126	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE																			P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																		1	1
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
2101	WITHIN NORMAL LIMITS		P	P	P	P															
	TERMINAL SACRIFICE																		P		
	ALOPECIA - EXTREMITIES/SNOUT						2	3	3	3	3	3	3	3	3	3	3	3	3		
2102	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		
2103	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		
2104	WITHIN NORMAL LIMITS		P	P								P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2									
	SCABS			P	P																
	LEFT UPPER DORSAL																				
	ALOPECIA - GENERAL						2	2	2	2	2										
2105	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		
2106	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P			P	P			
	TERMINAL SACRIFICE																		P		
	ALOPECIA - GENERAL														2	2					
2107	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		
2108	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P		

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																1	1	
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
2109	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2110	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT		2	2	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3	
2111	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2112	WITHIN NORMAL LIMITS																P	P	P	
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT		2	2	2	2	2	2	2	2	2	2	2	2	2	2				
	SCABS				P	P	P	P												
	CERVICAL																			
2113	WITHIN NORMAL LIMITS		P	P	P	P	P													
	TERMINAL SACRIFICE																		P	
	CHROMODACRYORRHEA - UNILATERAL								P	P	P	P	P	P	P	P	P	P	P	
	LACRIMATION - UNILATERAL															2	2	2	2	
	INCISORS MALOCCLUDED								P	P	P	P	P	P	P	P	P	P	P	
	INCISORS BROKEN/MISSING															P	P	P	P	
2114	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2115	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																		P	
2116	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																		P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																		1	1
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
2117	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
2118	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
2119	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT EYE(S) - APPEAR DAMAGED RIGHT		P	P	P	P		P	P	P									P		
2120	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
2121	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
2122	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL		P	P	P	P													P		
2123	WITHIN NORMAL LIMITS TERMINAL SACRIFICE CHROMODACRYORRHEA - UNILATERAL LACRIMATION - UNILATERAL ORAL SORE INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P						P		

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		1	1
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
2124	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2125	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2126	WITHIN NORMAL LIMITS TERMINAL SACRIFICE INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	-	1	2	3	4	4	5	6	7	7	8	9	9	0	1
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1
2124	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE																P
2125	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE																P
2126	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE																P
	INCISORS BROKEN/MISSING										P						P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	1	2	3	4	5	6	7	8	9	10	11
3101	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P
3102	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P
3103	WITHIN NORMAL LIMITS TERMINAL SACRIFICE SWOLLEN PAW(S) RIGHT FRONT BLACK STAINS SNOUT INCISORS MALOCCLUDED		P	P	P	P		P	P	P	P	P	P
3104	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P
3105	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT SCABS RIGHT AND LEFT FORE LIMB		P	P	P						P	P	P
3106	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ORAL SORE INCISORS BROKEN/MISSING		P	P	P	P	P						P
3107	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P							P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																		1	1
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
3108	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P
3109	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P			P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P
	ALOPECIA - EXTREMITIES/SNOUT										2	2									
3110	WITHIN NORMAL LIMITS		P	P												P	P	P	P	P	
	TERMINAL SACRIFICE																				P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	2	2	2	2	2	2	2	2	2	2					
3111	WITHIN NORMAL LIMITS		P	P									P	P							
	TERMINAL SACRIFICE																				P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	3	2	2	2	2	2			2	2	2	2	2	2	
	ALOPECIA - GENERAL															2	2	2	2		
3112	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P
3113	WITHIN NORMAL LIMITS		P	P	P																
	TERMINAL SACRIFICE																				P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	
3114	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P
3115	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		1	1
			-	1	2	3	4	4	5	6	7	7	8	9	9	0	1				
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
3116	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3117	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3118	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P							P	P	P	P	P		
3119	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3120	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3121	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3122	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3123	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3124	WITHIN NORMAL LIMITS TERMINAL SACRIFICE SCABS UPPER DORSAL		P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P		
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																					

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

		DAY OF		1 1																		
ANIMAL#	OBSERVATIONS	STUDY		-	1	2	3	4	4	5	6	7	7	8	9	9	0	1				
				7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	

3125	WITHIN NORMAL LIMITS			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P	
3126	WITHIN NORMAL LIMITS			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																				P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																						

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																1	1	
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
4101	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																			P
4102	WITHIN NORMAL LIMITS		P	P				P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																			P
	SCABS						P	P	P											
	CERVICAL																			
4103	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																			P
4104	WITHIN NORMAL LIMITS		P	P																
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	
4105	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																			P
4106	WITHIN NORMAL LIMITS		P	P																
	TERMINAL SACRIFICE																			P
	BLACK STAINS SNOUT				2															
	CHROMODACRYORRHEA - UNILATERAL			P				P	P	P	P	P	P						P	
	LACRIMATION - UNILATERAL																		2	
	INCISORS MALOCCLUDED				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	INCISORS BROKEN/MISSING																	P	P	P
4107	WITHIN NORMAL LIMITS		P	P	P															
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF																		1	1
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
4108	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4109	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P												P		
									2	2	2	2	3	3	3	3	3	3	3		
4110	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4111	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4112	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4113	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P	P	P	P				P		
																	2	3	3		
4114	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4115	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		
4116	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
																			P		

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		1	1
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
4117	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P	
4118	WITHIN NORMAL LIMITS		P	P	P	P	P														
	TERMINAL SACRIFICE																			P	
	CHROMODACRYORRHEA - UNILATERAL								P												
	INCISORS MALOCCLUDED								P	P	P	P	P	P	P	P	P				
	ORAL SORE								P	P	P										
	INCISORS BROKEN/MISSING														P	P	P	P			
4119	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P	
4120	WITHIN NORMAL LIMITS		P	P	P	P	P												P	P	
	TERMINAL SACRIFICE																			P	
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2	2	2	2	2	2	2			
4121	WITHIN NORMAL LIMITS		P	P	P	P	P												P	P	
	TERMINAL SACRIFICE																			P	
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2	2	2	2	2	2	2			
4122	WITHIN NORMAL LIMITS		P	P	P																
	TERMINAL SACRIFICE																			P	
	ALOPECIA - EXTREMITIES/SNOUT						3	3	3	3	3	3	3	3	3	3	3	3	3		
4123	WITHIN NORMAL LIMITS		P	P	P	P	P														
	TERMINAL SACRIFICE																			P	
	CHROMODACRYORRHEA - UNILATERAL								P	P					P						
	INCISORS MALOCCLUDED								P	P	P	P	P	P	P	P	P	P	P		
	INCISORS BROKEN/MISSING																		P	P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		1	1
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
4124	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4125	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4126	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF	1 1																		
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1601	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1602	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1603	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1604	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1605	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P										
	ALOPECIA - GENERAL														2	2					
1606	WITHIN NORMAL LIMITS		P		P																
	ALOPECIA - EXTREMITIES/SNOUT			2		2	2	2	2	2	2	2	2	2	2						
1607	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1608	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
1609	WITHIN NORMAL LIMITS		P	P	P	P	P						P	P	P	P					
	ALOPECIA - EXTREMITIES/SNOUT												2	2	2						
1610	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
1611	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
1612	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
1613	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P											
	SWOLLEN PAW(S)														P	P	P	P			
	RIGHT FRONT																				

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																			
			-	1	2	3	4	4	5	6	7	7	8	9	9	0	1	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1614	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1615	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1616	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1617	WITHIN NORMAL LIMITS		P	P	P	P	P	P													
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	2	2	2	2						
1618	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1619	WITHIN NORMAL LIMITS		P	P	P	P	P														
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	2			2	2					
	ALOPECIA - GENERAL													2	2	2					
1620	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1621	WITHIN NORMAL LIMITS		P	P	P																
	ALOPECIA - EXTREMITIES/SNOUT								2	2	3	3	3	3	3						
	SCABS								P	P											
	CERVICAL																				
	ALOPECIA - GENERAL								2	2											
1622	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1623	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
1624	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																			
			-	1	2	3	4	4	5	6	7	7	8	9	9	0	1	1	1	1	1
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1625	WITHIN NORMAL LIMITS		P		P	P	P														
	ALOPECIA - EXTREMITIES/SNOUT		2				2	2	2	2	2	2	2	2							
1626	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	1 1																	
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
2601	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P					P					
																2	2			
2602	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P						P	P	P			
																2	2	2		
2603	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2604	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2605	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2606	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2607	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2608	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P															
						3	3	3	3	3	3	3	3	3	3					
2609	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P							
																P				
2610	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
2611	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P								
																2	2			
2612	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																			
			-	1	2	3	4	4	5	6	7	7	8	9	9	0	1	1			
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
2601	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P											
2602	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P													
2603	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
2604	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
2605	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
2606	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
2607	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P							
2608	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P																
2609	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P									
2610	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						
2611	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P										
2612	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P						

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																		
			-	1	2	3	4	4	5	6	7	7	8	9	9	0	1	1	1	1
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
2613	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2614	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	CHROMODACRYORRHEA - UNILATERAL												P	P						
	INCISORS MALOCCLUDED																		P	
	INCISORS BROKEN/MISSING												P	P	P	P				
2615	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2616	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2617	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2618	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2619	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2620	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2621	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2622	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2623	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2624	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2625	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

		DAY OF	-	1	2	3	4	4	5	6	7	7	8	9	9	0	1
ANIMAL#	OBSERVATIONS	STUDY	7	0	7	4	1	8	5	2	9	6	3	0	7	4	1
2626	WITHIN NORMAL LIMITS																1 1
	ALOPECIA - EXTREMITIES/SNOUT																2 2 2 2 2 2 2 2

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF	1 1																	
		STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
3601	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3602	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
	INCISORS BROKEN/MISSING															P				
3603	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3604	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3605	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3606	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3607	WITHIN NORMAL LIMITS		P	P	P															
	ALOPECIA - EXTREMITIES/SNOUT					3	3	3	3	3	3	3	3	3	3					
3608	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3609	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3610	WITHIN NORMAL LIMITS		P	P					P	P	P	P	P	P	P	P				
	SCABS								P	P	P									
	TIP OF TAIL								P	P	P									
3611	WITHIN NORMAL LIMITS		P	P					P	P	P	P	P	P	P	P				
	SCABS								P	P										
	TIP OF TAIL																			
3612	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P				

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	1 1																	
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1		
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
3613	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3614	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3615	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3616	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3617	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3618	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3619	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3620	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3621	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3622	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3623	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3624	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					
3625	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P								
3626	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P					

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																			1	1
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1				
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2		
4601	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4602	WITHIN NORMAL LIMITS ACCIDENTAL		P	P	P	P	P	P	P	P	P	P	P	P	P							
4603	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4604	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4605	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4606	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4607	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4608	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4609	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4610	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4611	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4612	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4613	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
4614	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P							
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																						

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX D

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL WEEKLY CLINICAL OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY															
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1
4615	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4616	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4617	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4618	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4619	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4620	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4621	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4622	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4623	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4624	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4625	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4626	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX E

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 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																									
			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
1601	WITHIN NORMAL LIMITS		P							P									P									
1602	INCISORS MALOCCLUDED																		P									
	WITHIN NORMAL LIMITS		P							P																		
1603	WITHIN NORMAL LIMITS		P							P									P									
1604	INCISORS MALOCCLUDED		P							P									P									
1605	ALOPECIA - GENERAL		2							2									2									
1606	ALOPECIA - EXTREMITIES/SNOUT		2							2									2									
1607	WITHIN NORMAL LIMITS		P							P									P									
1608	WITHIN NORMAL LIMITS		P							P									P									
1609	TERMINAL SACRIFICE																											
	ALOPECIA - EXTREMITIES/SNOUT																											P
	WITHIN NORMAL LIMITS		P							P									2							2		
1610	WITHIN NORMAL LIMITS		P							P									P									
1611	WITHIN NORMAL LIMITS		P							P									P									
1612	WITHIN NORMAL LIMITS		P							P									P									
1613	SWOLLEN PAW(S)		P																									
	WITHIN NORMAL LIMITS									P									P								P	
1614	WITHIN NORMAL LIMITS		P							P									P									

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																											
			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		
1615	WITHIN NORMAL LIMITS		P						P										P											
1616	WITHIN NORMAL LIMITS		P						P										P											
1617	ALOPECIA - EXTREMITIES/SNOUT		2						2										2											
1618	WITHIN NORMAL LIMITS		P						P										P											
1619	ALOPECIA - EXTREMITIES/SNOUT		2						2										2											
	ALOPECIA - GENERAL		2						2										2											
1620	WITHIN NORMAL LIMITS		P						P										P											
1621	ALOPECIA - EXTREMITIES/SNOUT		3						3										3											
1622	WITHIN NORMAL LIMITS		P						P										P											
1623	WITHIN NORMAL LIMITS		P						P										P											
1624	WITHIN NORMAL LIMITS		P						P										P											
1625	TERMINAL SACRIFICE																													
	ALOPECIA - EXTREMITIES/SNOUT		2						2										3									P		
1626	WITHIN NORMAL LIMITS		P						P										P											

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2																									
			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
2601	WITHIN NORMAL LIMITS		P							P									P									
2602	WITHIN NORMAL LIMITS		P							P									P									
2603	WITHIN NORMAL LIMITS		P							P									P									
2604	WITHIN NORMAL LIMITS		P							P									P									
2605	WITHIN NORMAL LIMITS		P							P									P									
2606	WITHIN NORMAL LIMITS		P							P									P									
2607	WITHIN NORMAL LIMITS		P							P									P									
2608	ALOPECIA - EXTREMITIES/SNOUT		3							3									3									
2609	TERMINAL SACRIFICE INCISORS BROKEN/MISSING WITHIN NORMAL LIMITS		P							P																	P	
2610	WITHIN NORMAL LIMITS		P							P									P									
2611	ALOPECIA - EXTREMITIES/SNOUT INCISORS BROKEN/MISSING		2							2									2							2		
2612	WITHIN NORMAL LIMITS		P							P									P									
2613	WITHIN NORMAL LIMITS		P							P									P									
2614	INCISORS MALOCCLUDED INCISORS BROKEN/MISSING		P							P									P							P		

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 2 2 2 2 2																	
			0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7
2615	WITHIN NORMAL LIMITS		P						P				P						P	
2616	WITHIN NORMAL LIMITS		P						P				P						P	
2617	WITHIN NORMAL LIMITS		P						P				P						P	
2618	WITHIN NORMAL LIMITS		P						P				P						P	
2619	WITHIN NORMAL LIMITS		P						P				P						P	
2620	WITHIN NORMAL LIMITS		P						P				P						P	
2621	WITHIN NORMAL LIMITS		P						P				P						P	
2622	WITHIN NORMAL LIMITS		P						P				P						P	
2623	WITHIN NORMAL LIMITS		P						P				P						P	
2624	WITHIN NORMAL LIMITS		P						P				P						P	
2625	WITHIN NORMAL LIMITS		P						P				P						P	
2626	ALOPECIA - EXTREMITIES/SNOUT		2						2				2						2	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																									
			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
3601	WITHIN NORMAL LIMITS		P						P									P										
3602	WITHIN NORMAL LIMITS		P						P									P										
3603	WITHIN NORMAL LIMITS		P						P									P										
3604	WITHIN NORMAL LIMITS		P						P									P										
3605	TERMINAL SACRIFICE WITHIN NORMAL LIMITS		P						P									P										P
3606	WITHIN NORMAL LIMITS		P						P									P										
3607	ALOPECIA - EXTREMITIES/SNOUT		3						3									3										
3608	WITHIN NORMAL LIMITS		P						P									P										
3609	WITHIN NORMAL LIMITS		P						P									P										
3610	WITHIN NORMAL LIMITS		P						P									P										
3611	WITHIN NORMAL LIMITS		P						P									P										
3612	WITHIN NORMAL LIMITS		P						P									P										
3613	WITHIN NORMAL LIMITS		P						P									P										
3614	WITHIN NORMAL LIMITS		P						P									P										
3615	WITHIN NORMAL LIMITS		P						P									P										
3616	WITHIN NORMAL LIMITS		P						P									P										

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																											
			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		
3617	WITHIN NORMAL LIMITS		P						P										P											
3619	WITHIN NORMAL LIMITS		P						P										P											
3620	WITHIN NORMAL LIMITS		P						P										P											
3621	WITHIN NORMAL LIMITS		P						P										P											
3622	WITHIN NORMAL LIMITS		P						P										P											
3623	WITHIN NORMAL LIMITS		P						P										P											
3624	WITHIN NORMAL LIMITS		P						P										P											
3625	ALOPECIA - EXTREMITIES/SNOUT		2						2										2											
3626	WITHIN NORMAL LIMITS		P						P										P											
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																														

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP IV 20000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2																											
			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		
4601	WITHIN NORMAL LIMITS		P							P									P											
4603	WITHIN NORMAL LIMITS		P							P									P											
4604	WITHIN NORMAL LIMITS		P							P									P											
4605	WITHIN NORMAL LIMITS		P							P									P											
4606	WITHIN NORMAL LIMITS		P							P									P											
4607	WITHIN NORMAL LIMITS		P							P									P											
4608	WITHIN NORMAL LIMITS		P							P									P											
4609	TERMINAL SACRIFICE WITHIN NORMAL LIMITS																											P		
			P							P									P											
4610	WITHIN NORMAL LIMITS		P							P									P											
4611	WITHIN NORMAL LIMITS		P							P									P											
4612	CHROMODACRYORRHEA - UNILATERAL INCISORS MALOCCLUDED ORAL SORE WITHIN NORMAL LIMITS																		P								P			
																			P								P			
			P							P									P											
4613	WITHIN NORMAL LIMITS		P							P									P											
4614	WITHIN NORMAL LIMITS		P							P									P											
4615	ALOPECIA - EXTREMITIES/SNOUT WITHIN NORMAL LIMITS																		2							2				
			P							P																				

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CLINICAL OBSERVATIONS DURING GESTATION

GROUP IV 20000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF GESTATION																										
			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
4616	WITHIN NORMAL LIMITS		P						P								P					P						
4617	TERMINAL SACRIFICE WITHIN NORMAL LIMITS		P						P								P					P						P
4618	WITHIN NORMAL LIMITS		P						P								P					P						
4619	WITHIN NORMAL LIMITS		P						P								P					P						
4620	WITHIN NORMAL LIMITS		P						P								P					P						
4621	WITHIN NORMAL LIMITS		P						P								P					P						
4622	WITHIN NORMAL LIMITS		P						P								P					P						
4623	WITHIN NORMAL LIMITS		P						P								P					P						
4624	WITHIN NORMAL LIMITS		P						P								P					P						
4625	WITHIN NORMAL LIMITS		P						P								P					P						
4626	WITHIN NORMAL LIMITS		P						P								P					P						

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
1601	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	
1602	TERMINAL SACRIFICE INCISORS MALOCCLUDED INCISORS BROKEN/MISSING			P		P		P						P								P								P	
1603	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	
1604	TERMINAL SACRIFICE INCISORS MALOCCLUDED INCISORS BROKEN/MISSING			P		P		P						P								P								P	
1605	TERMINAL SACRIFICE ALOPECIA - GENERAL			2		2		2						2								2								2	
1606	FOUND DEAD			P																											
1607	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	
1608	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	
1610	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	
1611	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P							P								P								P		

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX F

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																													
			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	6	7	8	
1612	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1613	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1614	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1615	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1616	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1617	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			2		2		3						3								3								3		P
1618	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1619	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL			2		2		2						2								2								2		P
				2		2		2						2								2								2		2
1620	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P		P
1621	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			3		3		3						3								3								3		P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1																													
			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	6	7	8	9
1622	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P			P			P							P									P					P
1623	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P			P			P							P									P					P
1624	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P			P			P							P									P					P
1626	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P			P			P							P									P					P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
2601	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2602	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2603	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2604	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2605	WITHIN NORMAL LIMITS TERMINAL SACRIFICE MASS			P			P				2				2								2							P	
2606	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2607	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2608	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT																													P	
2610	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P									P							P	
2611	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT YELLOW ANO-GENITAL STAINING CHROMODACRYORRHEA - UNILATERAL LACRIMATION - UNILATERAL																													P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
2611	INCISORS MALOCCLUDED INCISORS BROKEN/MISSING																											P		P	
																												P		P	
2612	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P											P		P	
																													P		P
2613	WITHIN NORMAL LIMITS TERMINAL SACRIFICE RED EXUDATE (GENERAL)						P			P							P											P		P	
							P																							P	
2614	TERMINAL SACRIFICE INCISORS MALOCCLUDED INCISORS BROKEN/MISSING			P			P			P							P											P		P	
				P			P			P							P											P		P	
2615	WITHIN NORMAL LIMITS TERMINAL SACRIFICE INCISORS BROKEN/MISSING			P			P			P							P											P		P	
																														P	
2616	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P											P		P	
																														P	
2617	WITHIN NORMAL LIMITS TERMINAL SACRIFICE RED EXUDATE (GENERAL)						P			P							P											P		P	
							P																							P	
2618	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P											P		P	
																														P	
2619	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P											P		P	
																														P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
2620	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2621	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2622	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2623	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2624	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2625	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P								P								P	P
2626	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			2		3		3						3								3								P	3

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																															
			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	6	7	8	9	
3601	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3602	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3603	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3604	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3606	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3607	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			2			2			2						2													2			2	
3608	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3609	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3610	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	
3611	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P						P													P			P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX F

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																													
			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	6	7	8	
3612	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3613	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3614	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3615	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3616	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3617	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3619	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3620	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3621	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P
3622	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P								P								P	P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																											
			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	6	7
3623	WITHIN NORMAL LIMITS				P		P			P								P												P
	TERMINAL SACRIFICE																													P
3624	WITHIN NORMAL LIMITS				P		P			P								P												P
	TERMINAL SACRIFICE																													P
3625	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT				2		2			2								2											2	
	ALOPECIA - GENERAL									2								2										2		
3626	WITHIN NORMAL LIMITS				P		P			P								P												P
	TERMINAL SACRIFICE																													P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
4601	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4603	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4604	WITHIN NORMAL LIMITS TERMINAL SACRIFICE RED ANO-GENITAL STAINING						P		P					P								P								P	
4605	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4606	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4607	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4608	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4610	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P		P					P								P								P	
4611	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			P			P																							P	
4612	TERMINAL SACRIFICE CHROMODACRYORRHEA - UNILATERAL LACRIMATION - UNILATERAL INCISORS MALOCCLUDED			P					P					P																P	
				2					2					2																	
				P					P					P								P								P	
				2					2					2																	
				P			P		P					P								P								P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																														
			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	6	7	8	
4612	ORAL SORE																															
4613	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4614	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - GENERAL																															
4615	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT																															
4616	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4618	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4619	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4620	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4621	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															
4622	WITHIN NORMAL LIMITS TERMINAL SACRIFICE																															

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL CLINICAL AND POST-DOSE OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																												
			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	6	7	8
4623	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P										P			P	
4624	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P										P			P	
4625	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P										P			P	
4626	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P			P							P										P			P	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

DAY OF STUDY																
ANIMAL#	-14	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91
1101	150	205	271	317	358	390	427	446	472	479	504	524	536	552	570	576
1102	135	186	241	282	318	342	348	362	383	395	413	419	431	443	460	457
1103	145	210	278	327	369	400	409	441	456	476	492	499	517	524	548	550
1104	155	220	286	334	365	392	413	438	454	466	482	500	500	515	528	532
1105	148	211	279	333	371	409	436	464	486	509	531	549	557	564	578	581
1106	140	198	239	267	297	332	356	373	399	407	428	450	464	466	474	482
1107	163	235	293	334	377	415	422	452	484	499	520	529	546	546	570	561
1108	163	229	293	335	374	414	444	455	474	494	508	536	551	554	563	557
1109	153	214	279	326	366	406	424	452	463	478	500	502	508	518	527	526
1110	145	202	261	299	334	363	372	392	404	418	435	451	459	474	488	489
1111	160	221	289	334	382	421	436	446	463	481	486	514	516	523	539	534
1112	141	191	247	276	307	331	335	347	365	380	394	404	412	419	432	443
1113	157	224	294	341	380	428	430	441	467	499	521	540	545	563	584	587
1114	143	210	280	329	377	417	432	458	470	463	447	479	514	543	577	577
1115	162	220	282	321	352	376	405	424	437	452	472	474	502	502	521	524
1116	151	214	277	319	353	389	407	419	448	458	489	498	513	519	539	549
1117	149	201	260	305	331	358	385	409	421	436	457	466	480	487	512	520
1118	142	210	281	326	366	398	425	448	465	475	491	502	516	521	546	551
1119	128	188	250	285	320	341	359	374	390	399	422	424	444	441	464	465
1120	168	231	295	333	356	394	402	425	437	443	449	455	469	484	503	514
1121	157	219	279	320	361	389	408	422	438	455	473	491	495	508	522	532
1122	133	190	250	292	327	363	387	406	425	438	457	466	472	482	494	496
1123	155	219	281	330	369	404	435	449	472	488	513	528	541	559	573	588
1124	153	224	288	331	367	401	422	443	462	472	505	517	535	528	539	548
1125	156	223	289	332	361	388	416	431	449	461	479	480	498	498	515	524
1126	137	205	273	325	362	387	388	410	420	435	454	462	476	478	479	490
MEAN	150	211	274	317	354	386	405	424	443	456	474	487	500	508	525	529
S.D.	10.3	13.5	17.0	20.9	23.7	27.8	30.0	31.9	32.8	34.5	36.1	38.7	38.4	39.6	41.4	40.5

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)

MALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY															
	-14	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91
3101	140	202	263	305	343	369	392	401	419	440	456	457	463	466	477	464
3102	137	202	281	334	380	408	427	443	470	482	500	521	535	531	550	556
3103	157	212	269	316	352	379	403	423	433	449	472	482	482	488	510	515
3104	146	194	258	302	338	379	406	435	463	482	501	526	536	539	553	567
3105	159	224	292	336	371	398	424	442	451	472	500	515	526	534	544	554
3106	139	204	281	328	368	403	419	440	434	450	484	496	520	522	547	544
3107	151	216	279	324	371	397	419	436	456	476	491	504	524	502	541	523
3108	146	204	271	319	357	387	410	423	445	463	484	513	521	528	530	515
3109	152	215	285	343	398	438	467	496	514	523	545	569	581	602	615	605
3110	164	228	296	357	410	438	477	491	514	539	562	573	589	600	619	609
3111	143	200	265	313	348	382	413	430	452	462	496	497	507	517	532	531
3112	135	191	251	277	302	321	344	351	358	367	380	388	397	413	422	424
3113	163	216	273	304	328	348	365	384	391	396	412	416	430	439	448	449
3114	157	221	286	329	361	393	417	436	451	461	478	493	506	521	522	532
3115	143	203	259	300	340	371	398	421	438	457	479	488	506	515	523	529
3116	153	218	288	328	354	373	393	403	408	424	434	443	452	450	451	450
3117	128	180	242	277	311	339	355	372	387	402	414	424	444	449	465	468
3118	153	215	276	315	343	376	393	404	420	432	456	471	484	476	503	510
3119	125	186	251	307	354	387	414	433	448	472	487	506	517	516	522	532
3120	162	223	287	328	368	399	424	442	463	483	500	517	526	534	550	554
3121	161	218	271	295	323	345	359	368	369	369	381	387	391	389	392	389
3122	155	220	286	339	380	418	440	464	482	493	512	528	535	552	559	560
3123	142	205	271	307	332	353	359	369	385	389	407	409	424	428	435	442
3124	148	213	274	318	355	391	413	429	445	452	484	504	519	528	537	545
3125	154	226	290	335	370	408	422	446	465	493	509	527	527	545	556	563
3126	164	225	289	326	368	391	413	433	455	478	492	506	523	537	545	554
MEAN	149	210	274	318	355	384	406	424	439	454	474	487	499	505	517	519
S.D.	10.8	12.8	14.2	19.1	24.8	28.1	31.7	35.1	39.2	42.9	45.4	49.8	50.5	52.8	55.1	55.

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INDIVIDUAL BODY WEIGHTS (GRAMS)

MALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY															
	-14	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91
4101	131	185	241	269	299	321	337	348	360	372	389	393	402	406	411	415
4102	134	186	244	275	310	337	361	375	392	411	429	435	455	464	470	469
4103	162	219	281	311	338	369	387	403	417	432	445	451	465	472	482	471
4104	147	201	266	312	346	380	399	403	425	429	445	464	455	461	474	462
4105	161	228	294	342	377	412	437	456	478	492	507	527	547	551	559	565
4106	125	187	250	280	295	326	352	369	383	399	421	442	454	452	470	466
4107	156	214	276	310	346	374	394	413	423	443	460	475	481	485	498	489
4108	154	231	312	365	412	454	489	519	543	566	595	619	632	641	664	656
4109	152	208	269	305	338	365	396	412	429	445	456	461	473	491	503	505
4110	157	230	296	350	385	411	441	466	484	494	512	529	535	544	556	565
4111	143	200	259	294	330	363	384	399	423	432	450	462	471	478	480	475
4112	149	207	270	300	332	364	383	400	423	433	454	468	490	489	504	503
4113	152	214	276	318	364	395	418	437	448	469	503	519	527	528	542	549
4114	141	202	262	303	329	353	378	394	411	429	446	451	459	475	486	511
4115	154	203	263	299	333	355	376	395	409	420	435	447	451	465	475	482
4116	164	227	295	331	371	405	433	453	482	506	539	551	568	576	587	594
4117	159	223	289	333	373	404	421	431	443	450	473	503	511	526	539	536
4118	144	211	277	299	328	347	349	355	350	401	426	425	433	438	453	451
4119	140	199	265	304	333	347	354	363	383	389	419	446	459	460	468	482
4120	146	206	262	291	326	345	377	383	404	417	421	443	446	470	471	471
4121	140	208	282	337	383	409	425	445	455	469	500	521	522	529	540	542
4122	155	210	274	317	351	370	393	413	436	454	478	485	503	503	508	530
4123	151	211	272	314	345	356	371	385	402	414	427	446	455	461	468	475
4124	162	222	284	313	347	380	405	425	440	452	472	479	490	498	494	499
4125	137	197	257	296	329	354	379	398	410	430	458	470	484	497	497	518
4126	165	230	301	333	361	384	411	427	446	457	473	477	489	503	512	523
MEAN	149	210	274	311	345	372	394	410	427	442	463	477	487	495	504	508
S.D.	10.6	13.6	17.4	22.8	27.0	30.7	34.0	38.0	41.0	40.7	43.8	46.5	47.8	47.8	50.2	50.6
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES GROUP II 2000 MG/M3

[illegible]

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP III 10000 MG/M3

[illegible]

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APPENDIX G

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY		0	7	14	21	28	35	42	49	56	63	69	77	84	91
	-14	-7														
4601	116	164	200	213	219	251	260	274	286	278	299	298	299			
4602	99	140	165	191	205	221	241	253	245	259	277	264				
4603	117	158	189	223	232	250	268	271	289	283	308	309	311			
4604	120	160	194	211	236	250	260	274	273	282	287	298	301			
4605	110	143	179	206	213	232	248	252	249	260	265	266	276			
4606	104	143	173	188	199	220	230	244	248	252	253	261	265			
4607	114	167	203	226	238	268	288	293	291	299	307	316	317			
4608	98	141	172	188	205	216	234	244	251	255	261	266	265			
4609	113	157	192	207	232	252	266	273	276	288	287	297	305			
4610	105	153	185	207	225	245	257	262	266	272	296	288	290			
4611	102	143	175	186	214	229	250	251	257	263	261	273	273			
4612	106	154	186	211	235	253	270	266	282	278	277	291	285			
4613	109	153	185	212	220	251	266	265	282	278	297	302	306			
4614	124	167	202	222	242	255	275	280	297	303	300	314	318			
4615	111	159	198	213	237	249	259	267	277	281	281	287	292			
4616	98	136	173	188	214	232	242	251	258	266	273	273	280			
4617	97	139	174	192	214	225	243	249	253	251	266	274	272			
4618	115	166	194	204	232	247	260	258	274	284	284	287	292			
4619	121	162	200	217	227	235	247	260	266	267	276	285	282			
4620	104	138	169	185	197	209	222	235	236	240	247	249	250			
4621	107	157	192	216	234	243	258	270	269	279	295	293	302			
4622	108	151	188	197	209	225	231	247	255	266	282	308	301			
4623	118	172	203	218	240	251	256	274	275	285	299	290	305			
4624	124	168	196	216	238	244	262	256	270	278	276	281	282			
4625	109	149	184	204	230	234	248	258	270	269	280	283	284			
4626	119	165	216	233	254	259	281	288	295	296	328	322	334			
MEAN	110	154	188	207	225	240	255	262	269	273	283	287	292			
S.D.	8.1	10.9	12.8	13.5	14.8	14.8	16.0	14.0	16.4	15.3	18.6	18.5	19.4			
N	26	26	26	26	26	26	26	26	26	26	26	26	25			

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APPENDIX G

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES GROUP I 0 MG/M3 INDIVIDUAL BODY WEIGHTS (GRAMS)

ANIMAL#	DAY OF STUDY	
	98	105
1101	580	594
1102	463	472
1103	563	554
1104	541	551
1105	603	611
1106	479	484
1107	569	581
1108	555	560
1109	535	534
1110	501	506
1111	543	535
1112	454	462
1113	602	599
1114	586	596
1115	539	533
1116	555	565
1117	532	548
1118	554	554
1119	469	478
1120	516	525
1121	551	553
1122	505	514
1123	597	609
1124	564	561
1125	539	540
1126	489	503
MEAN	538	543
S.D.	42.7	42.0
N	26	26

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)			
MALES	GROUP II	2000 MG/M3	
ANIMAL#	DAY OF STUDY		
	98	105	
2101	544	553	
2102	566	582	
2103	590	608	
2104	499	506	
2105	526	549	
2106	553	562	
2107	477	498	
2108	630	634	
2109	528	544	
2110	551	559	
2111	467	468	
2112	541	551	
2113	484	487	
2114	514	523	
2115	456	461	
2116	514	520	
2117	557	563	
2118	571	578	
2119	578	589	
2120	598	603	
2121	530	540	
2122	529	540	
2123	458	467	
2124	451	452	
2125	547	555	
2126	527	528	
MEAN	530	539	
S.D.	46.1	47.3	
N	26	26	

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES GROUP III 10000 MG/M3
INDIVIDUAL BODY WEIGHTS (GRAMS)

ANIMAL#	DAY OF STUDY	
	98	105
3101	482	492
3102	571	585
3103	427	413
3104	580	589
3105	557	588
3106	555	570
3107	527	554
3108	525	531
3109	618	636
3110	630	640
3111	540	552
3112	427	434
3113	472	478
3114	548	557
3115	532	542
3116	463	467
3117	484	498
3118	512	528
3119	536	546
3120	556	560
3121	404	409
3122	570	586
3123	449	451
3124	552	569
3125	573	576
3126	571	574
MEAN	525	536
S.D.	58.6	62.8
N	26	26

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)

MALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY	
	98	105
4101	431	441
4102	479	491
4103	480	494
4104	475	494
4105	571	586
4106	482	492
4107	507	507
4108	688	697
4109	516	514
4110	567	571
4111	489	488
4112	516	528
4113	562	571
4114	522	528
4115	488	491
4116	597	606
4117	547	559
4118	463	478
4119	500	515
4120	477	481
4121	554	570
4122	545	559
4123	488	491
4124	507	516
4125	526	536
4126	541	540
MEAN	520	528
S.D.	51.9	52.2
N	26	26

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)		
FEMALES	GROUP I	0 MG/M3

	DAY	OF STUDY
ANIMAL#	98	105

1611		300
MEAN	0	300
S.D.	0.0	0.0
N	1	1

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY	
	98	105
3618	343	338
MEAN	343	338
S.D.	0.0	0.0
N	1	1

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

[illegible]

[illegible]

APPENDIX H

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP II 2000 MG/M3

[illegible]

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP IV 20000 MG/M3

[illegible]

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY															
	-14--7	-7-0	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	69-77	77-84	84-91	91-98
2601	38	35	20	16	19	25	11	5	8	12	2	9				
2602	41	30	27	27	8	26	8	18	-1	7	1	6				
2603	36	36	26	21	10	14	5	13	0	7	2	3				
2604	50	48	26	49	19	3	24	13	5	3	17	6				
2605	31	21	27	19	8	15	12	9	-7	22	18	-17				
2606	44	27	18	8	29	13	1	-2	21	9	42	-29				
2607	46	39	29	21	9	19	8	6	-9	21	3	-7				
2608	38	23	30	21	9	21	12	5	8	4	4	8				
2609	39	30	14	30	9	25	-1	17	-2	15	26	-5				
2610	45	34	26	18	19	8	3	8	3	10	1	0				
2611	40	33	23	19	26	22	2	10	9	11	-7	18				
2612	46	38	23	19	19	15	2	11	3	-3	10	3				
2613	54	34	30	27	27	11	7	12	10	15	20	-10				
2614	48	24	27	25	20	5	20	6	-11	15	8	-3				
2615	46	36	17	21	20	0	19	9	5	-2	9	7				
2616	49	38	23	23	23	15	12	5	6	7	-1	1				
2617	43	39	25	15	15	15	14	5	7	3	12	1				
2618	45	28	27	16	13	0	13	10	5	-4	31	-8				
2619	48	37	28	23	20	15	8	14	-1	22	15	24				
2620	38	35	15	23	15	9	17	-1	21	-5	8	-1				
2621	37	36	19	19	18	17	1	16	0	4	4	12				
2622	44	46	24	28	12	24	9	0	14	22	-10	6				
2623	51	37	10	16	10	16	9	9	0	11	10	-4				
2624	55	38	26	26	23	13	27	-10	-11	15	16	-8				
2625	45	31	25	22	6	20	13	7	2	7	5	-5				
2626	40	30	24	25	20	1	18	9	7	10	38	-20				
MEAN	44	34	23	22	16	14	10	8	3	9	11	0				
S.D.	5.9	6.3	5.2	7.3	6.5	7.8	7.3	6.3	8.2	7.9	12.7	11.3				
N	26	26	26	26	26	26	26	26	26	26	26	26				

APPENDIX H

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY															
	-14--7	-7-0	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	69-77	77-84	84-91	91-98
3601	39	26	11	26	14	11	3	12	8	4	-2	13				
3602	37	34	18	21	12	14	9	-1	15	4	2	-1				
3603	43	35	22	23	12	22	12	8	-6	14	1	-8				
3604	41	33	17	14	11	14	7	11	-3	16	6	-8				
3605	45	40	24	19	11	16	10	3	-4	9	5	-8				
3606	40	17	30	9	19	11	5	8	4	7	-3	-3				
3607	39	30	19	14	18	19	2	15	5	14	-5	5				
3608	43	37	30	1	32	17	-11	12	8	19	21	14				
3609	43	42	16	32	18	19	9	7	11	3	5	7				
3610	45	33	26	7	22	14	0	16	7	6	-2	5				
3611	35	28	6	18	9	14	6	7	10	9	-1	7				
3612	40	28	20	20	15	8	9	9	4	4	7	8				
3613	44	29	15	26	22	-5	12	5	5	-2	5	-2				
3614	42	32	19	21	5	25	3	15	10	10	1	9				
3615	51	32	19	18	21	12	13	6	2	4	5	10				
3616	44	35	25	19	10	13	8	16	8	3	-3	8				
3617	43	23	26	29	10	13	8	10	5	0	9	4				
3618	40	32	16	16	20	17	0	11	18	15	7	9	-5	21	17	14
3619	47	26	24	20	17	11	14	7	6	2	5	4				
3620	43	36	9	34	2	24	13	6	11	9	1	-4				
3621	44	29	31	28	6	16	8	6	8	0	13	2				
3622	54	34	21	14	24	14	6	1	15	7	6	0				
3623	37	31	23	16	9	15	12	7	-4	19	4	-1				
3624	37	26	6	18	11	39	-15	0	9	20	0	3				
3625	41	34	24	17	15	11	7	0	13	19	-4	-1				
3626	40	25	16	9	12	16	4	4	4	11	2	0				
MEAN	42	31	20	19	14	15	6	8	6	9	3	3	-5	21	17	14
S.D.	4.1	5.4	6.9	7.7	6.7	7.3	6.9	4.9	6.1	6.5	5.7	6.2	0.0	0.0	0.0	0.0
N	26	26	26	26	26	26	26	26	26	26	26	26	1	1	1	1

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY														
	-14--7	-7-0	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	69-77	77-84	84-91 91-98
4601	48	35	14	6	32	9	14	12	-8	21	-1	1			
4602	41	25	26	14	16	20	12	-9	14	18	-12				
4603	41	31	34	9	18	19	3	19	-7	25	1	2			
4604	40	34	17	25	14	10	14	0	9	5	12	3			
4605	33	36	27	6	19	16	4	-3	10	6	1	10			
4606	39	30	15	11	21	10	14	5	4	1	8	4			
4607	53	36	23	12	30	20	5	-2	8	8	10	1			
4608	43	31	16	16	11	18	10	7	4	6	5	-1			
4609	44	35	15	25	20	13	8	3	12	0	10	8			
4610	48	32	22	18	19	12	5	3	6	24	-8	3			
4611	40	32	11	27	16	21	1	5	7	-2	12	0			
4612	48	32	25	24	18	17	-4	16	-4	-2	15	-6			
4613	43	33	26	9	31	15	-1	17	-4	19	5	4			
4614	44	35	20	20	13	20	5	17	7	-3	14	5			
4615	48	39	15	25	12	9	8	10	4	0	7	5			
4616	39	37	15	25	18	10	9	7	8	6	0	8			
4617	42	35	19	21	12	17	7	4	-2	15	8	-2			
4618	51	28	10	28	15	13	-3	17	10	1	2	6			
4619	41	38	17	10	8	12	13	7	1	9	9	-3			
4620	34	31	16	12	12	13	13	1	5	6	3	1			
4621	50	35	24	18	9	15	11	-1	10	16	-2	9			
4622	43	38	8	13	16	6	15	8	11	17	26	-7			
4623	54	31	15	22	12	4	18	1	10	15	-9	15			
4624	44	28	20	21	6	18	-6	14	8	-2	5	2			
4625	40	36	20	26	4	14	10	12	-1	11	3	2			
4626	46	51	17	21	5	22	7	7	1	32	-5	12			
MEAN	44	34	19	18	16	14	7	7	5	10	4	3			
S.D.	5.2	4.9	5.9	7.0	7.2	4.7	6.3	7.1	5.9	9.7	8.3	5.2			
N	26	26	26	26	26	26	26	26	26	26	26	25			

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP I 0 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
1101	13	265	323
1102	10	189	231
1103	-8	239	276
1104	10	214	265
1105	8	278	332
1106	5	225	245
1107	11	253	287
1108	6	258	267
1109	0	229	256
1110	5	199	246
1111	-8	227	246
1112	8	165	215
1113	-3	251	304
1114	10	234	316
1115	-6	220	250
1116	10	236	287
1117	17	220	288
1118	-1	235	273
1119	9	194	228
1120	10	173	230
1121	3	216	274
1122	9	222	264
1123	13	260	329
1124	-2	247	273
1125	1	209	250
1126	14	203	230
MEAN	6	225	269
S.D.	7.0	27.8	32.7
N	26	26	26

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
2101	9	265	293
2102	16	275	322
2103	18	243	319
2104	7	206	242
2105	24	253	290
2106	10	241	290
2107	22	206	238
2108	4	286	353
2109	16	228	266
2110	9	217	269
2111	2	189	190
2112	10	238	278
2113	3	199	242
2114	10	175	243
2115	5	193	225
2116	6	195	241
2117	6	237	285
2118	8	253	298
2119	11	235	293
2120	5	252	280
2121	10	201	268
2122	11	200	257
2123	9	178	206
2124	1	171	201
2125	7	218	271
2126	1	200	241
MEAN	9	221	265
S.D.	5.8	31.6	38.4
N	26	26	26

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
3101	10	200	229
3102	15	254	304
3103	-14	213	145
3104	10	278	331
3105	31	233	296
3106	16	240	290
3107	27	246	276
3108	7	250	260
3109	17	296	351
3110	10	293	344
3111	12	242	287
3112	7	146	183
3113	6	158	205
3114	9	220	271
3115	10	247	283
3116	4	164	179
3117	15	202	257
3118	16	207	252
3119	10	267	295
3120	4	238	273
3121	5	120	138
3122	16	249	301
3123	3	153	180
3124	16	244	294
3125	4	237	286
3126	3	234	285
MEAN	10	224	261
S.D.	8.5	45.1	57.5
N	26	26	26

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
4101	10	161	200
4102	13	211	247
4103	13	184	213
4104	20	189	229
4105	15	252	292
4106	10	204	242
4107	0	205	231
4108	9	321	386
4109	-2	205	245
4110	4	240	275
4111	-1	211	229
4112	12	220	257
4113	9	250	294
4114	6	197	266
4115	3	188	228
4116	9	273	311
4117	12	223	270
4118	14	156	201
4119	15	194	250
4120	5	184	220
4121	16	241	288
4122	13	229	284
4123	3	183	219
4124	9	207	232
4125	10	226	279
4126	-1	188	239
MEAN	9	213	255
S.D.	5.9	35.4	40.2
N	26	26	26

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APPENDIX H

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP I 0 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
1601		134	
1602		105	
1603		108	
1604		119	
1605		94	
1606		112	
1607		116	
1608		88	
1609		113	
1610		126	
1611	300	94	129
1612		117	
1613		101	
1614		100	
1615		90	
1616		118	
1617		105	
1618		122	
1619		97	
1620		104	
1621		98	
1622		124	
1623		103	
1624		114	
1625		114	
1626		102	
MEAN	300	108	129
S.D.	0.0	11.8	0.0
N	1	26	1

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APPENDIX H

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY	
	98-105	0-69 0-105
2601		126
2602		126
2603		100
2604		165
2605		105
2606		110
2607		100
2608		122
2609		127
2610		95
2611		132
2612		100
2613		149
2614		111
2615		104
2616		114
2617		111
2618		102
2619		168
2620		100
2621		108
2622		130
2623		88
2624		117
2625		102
2626		132
MEAN		117
S.D.		20.2
N		26

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
3601		100	
3602		91	
3603		101	
3604		86	
3605		86	
3606		87	
3607		105	
3608		143	
3609		126	
3610		99	
3611		85	
3612		104	
3613		81	
3614		119	
3615		110	
3616		108	
3617		113	
3618	-4	128	170
3619		111	
3620		106	
3621		117	
3622		107	
3623		100	
3624		90	
3625		99	
3626		76	
MEAN	-4	103	170
S.D.	0.0	15.7	0.0
N	1	26	1

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APPENDIX H

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY		
	98-105	0-69	0-105
4601		100	
4603		122	
4604		107	
4605		97	
4606		92	
4607		115	
4608		93	
4609		113	
4610		105	
4611		98	
4612		99	
4613		120	
4614		116	
4615		94	
4616		107	
4617		98	
4618		98	
4619		82	
4620		81	
4621		110	
4622		113	
4623		102	
4624		86	
4625		100	
4626		118	
MEAN		103	
S.D.		11.4	
N		25	

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APPENDIX I

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3

ANIMAL#	DAY OF GESTATION				
	0	4	7	14	20
1601	313	336	347	386	466
1602	296	303	315	336	402
1603	294	317	326	361	437
1604	303	326	336	362	438
1605	281	305	314	347	419
1606 DIED	276	301	309	345	410
1607	285	318	326	371	439
1608	259	288	292	314	391
1609x NP	328	343	363	358	359
1610	289	300	307	335	384
1611 TLL	264	289	298	324	336
1612	289	312	323	356	423
1613	281	325	337	375	453
1614	292	316	330	355	442
1615	278	295	312	346	357
1616	317	349	365	397	470
1617	297	311	320	345	414
1618	303	332	341	372	430
1619	294	310	318	340	396
1620	281	311	312	355	424
1621	296	315	324	357	432
1622	288	297	311	341	402
1623	263	278	288	306	360
1624	296	321	332	358	419
1625x NP	323	346	349	347	335
1626	276	290	305	327	394
MEAN	288	310	320	350	414
S.D.	14.6	16.8	17.7	21.5	33.2
N	24	24	24	24	24

DIED=FOUND DEAD NP=NOT PREGNANT TLL=TOTAL LITTER LOSS x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0	4	7	14	20
2601	300	322	331	357	403
2602	317	346	360	376	439
2603	291	308	319	348	416
2604	372	404	417	455	517
2605	265	288	295	320	392
2606	289	326	334	362	434
2607	309	333	357	385	457
2608	288	306	318	341	436
2609x NP	302	319	323	325	318
2610	262	276	287	307	371
2611	303	332	326	359	413
2612	290	307	316	339	407
2613	354	375	383	408	470
2614	281	312	323	357	381
2615	300	327	337	358	424
2616	314	333	339	378	455
2617	294	310	317	346	424
2618	283	304	311	352	427
2619	347	366	374	400	481
2620	278	302	319	344	382
2621	276	281	288	318	382
2622	316	337	347	375	459
2623	297	318	326	360	446
2624	326	355	365	381	450
2625	299	310	322	346	430
2626	301	319	335	369	434
MEAN	302	324	334	362	429
S.D.	26.4	29.2	29.8	30.6	34.4
N	25	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

GROUP III 10000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0	4	7	14	20
3601	262	284	295	326	411
3602	272	303	312	340	399
3603	286	311	320	350	432
3604	264	285	302	327	403
3605x NP	281	315	323	328	347
3606	253	272	281	311	371
3607	280	295	304	332	391
3608	325	346	360	390	476
3609	321	344	358	384	431
3610	290	321	334	361	418
3611	249	271	278	304	348
3612	268	295	305	330	394
3613	279	296	309	326	397
3614	307	334	359	386	465
3615	292	310	320	356	432
3616	304	327	336	375	466
3617	286	305	317	342	412
3618x NP					
3619	312	328	336	373	471
3620	298	332	337	378	442
3621	294	312	324	347	434
3622	312	345	341	375	430
3623	260	282	285	316	361
3624	267	298	305	343	410
3625	284	302	314	342	387
3626	241	261	269	300	350
MEAN	283	307	317	346	414
S.D.	23.0	24.3	25.3	26.8	36.2
N	24	24	24	24	24

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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APPENDIX I

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV 20000 MG/M3 INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

ANIMAL#	DAY OF GESTATION				
	0	4	7	14	20
4601	305	329	345	378	404
4602xNPAD					
4603	312	344	352	384	447
4604	293	319	327	346	423
4605	273	297	306	342	414
4606	258	281	291	320	394
4607	318	346	353	388	426
4608	276	297	315	341	419
4609x NP	303	303	308	317	316
4610	285	303	309	345	432
4611	267	288	299	330	401
4612	292	323	339	324	399
4613	305	324	340	363	428
4614	311	340	349	381	442
4615	290	310	330	366	440
4616	273	286	298	321	382
4617x NP	265	283	290	307	295
4618	293	319	328	360	426
4619	282	304	319	340	395
4620	239	259	266	290	351
4621	302	327	343	379	456
4622	297	315	325	353	432
4623	314	332	346	361	431
4624	282	310	312	342	423
4625	287	305	314	341	408
4626	330	355	367	399	477
MEAN	291	314	325	352	419
S.D.	21.0	23.1	23.9	26.1	26.6
N	23	23	23	23	23

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG x=EXCLUDED FROM MEAN

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APPENDIX J

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I 0 MG/M3
 INDIVIDUAL GESTATION BODY WEIGHT GAIN (GRAMS)

ANIMAL#	DAY OF GESTATION				
	0 - 4	4 - 7	7 - 14	14 - 20	0 - 20
1601	23	11	38	81	153
1602	7	13	21	66	106
1603	23	8	35	77	144
1604	23	10	26	76	135
1605	24	9	33	72	138
1606 DIED	26	8	36	65	134
1607	33	8	46	68	154
1608	29	4	22	77	132
1609x NP	15	20	-5	1	31
1610	10	7	28	49	95
1611 TLL	25	9	26	12	73
1612	23	11	34	66	134
1613	44	13	37	78	172
1614	23	15	24	88	150
1615	16	17	34	11	78
1616	32	16	32	73	153
1617	15	9	24	69	117
1618	29	9	31	58	127
1619	16	8	22	56	102
1620	30	1	44	69	143
1621	19	9	34	74	136
1622	9	14	30	61	114
1623	15	10	18	55	98
1624	25	11	26	61	123
1625x NP	24	3	-2	-12	13
1626	14	15	21	68	118
MEAN	22	10	30	64	126
S.D.	8.6	3.7	7.3	18.4	24.8
N	24	24	24	24	24

DIED=FOUND DEAD

NP=NOT PREGNANT

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHT GAIN (GRAMS)

GROUP II 2000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0 - 4	4 - 7	7 - 14	14 - 20	0 - 20
2601	22	9	26	46	103
2602	28	14	17	62	121
2603	17	11	28	68	125
2604	32	13	38	62	145
2605	24	6	26	72	128
2606	38	8	27	73	146
2607	24	24	28	71	148
2608	18	13	23	95	148
2609x NP	17	4	2	-8	15
2610	14	11	21	64	109
2611	29	-6	33	53	110
2612	16	9	23	68	117
2613	21	8	24	62	115
2614	31	12	34	24	100
2615	27	10	21	66	124
2616	19	6	39	77	141
2617	16	7	29	78	130
2618	20	7	41	74	143
2619	19	8	26	82	135
2620	23	18	25	38	104
2621	5	8	30	64	106
2622	21	10	28	84	142
2623	21	8	34	86	150
2624	28	10	16	69	124
2625	11	12	24	84	130
2626	19	16	34	65	133
MEAN	22	10	28	67	127
S.D.	7.1	5.2	6.5	15.4	15.8
N	25	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHT GAIN (GRAMS)

GROUP III 10000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0 - 4	4 - 7	7 - 14	14 - 20	0 - 20
3601	23	11	31	85	149
3602	31	9	28	59	127
3603	25	9	30	82	147
3604	21	17	25	76	139
3605x NP	34	9	4	20	67
3606	19	10	30	60	119
3607	15	8	29	59	111
3608	21	14	30	87	152
3609	22	14	26	47	110
3610	31	13	26	57	128
3611	22	7	26	44	99
3612	27	10	25	64	127
3613	17	13	17	72	119
3614	27	25	27	80	159
3615	18	10	36	75	140
3616	24	8	40	91	162
3617	20	11	25	70	126
3618xNNMD					
3619	16	9	37	97	159
3620	34	5	41	64	144
3621	18	12	23	86	140
3622	33	-4	34	55	118
3623	22	3	31	45	101
3624	31	8	38	66	143
3625	19	11	29	45	103
3626	20	8	31	51	109
MEAN	23	10	30	67	130
S.D.	5.7	5.3	5.7	15.8	19.4
N	24	24	24	24	24

NP=NOT PREGNANT NNMD=NOT PREG., NO MATING DATE x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION BODY WEIGHT GAIN (GRAMS)

GROUP IV 20000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0 - 4	4 - 7	7 - 14	14 - 20	0 - 20
4601	24	15	33	26	98
4602xNPAD					
4603	32	8	32	64	135
4604	26	8	18	77	130
4605	24	9	36	73	141
4606	23	10	29	74	136
4607	28	7	35	38	107
4608	22	18	26	78	144
4609x NP	0	5	9	-1	13
4610	18	7	36	87	147
4611	22	11	31	71	134
4612	31	17	-16	75	107
4613	19	15	24	64	122
4614	29	9	32	61	131
4615	20	20	36	74	150
4616	13	11	24	60	109
4617x NP	18	7	17	-13	29
4618	26	10	32	66	134
4619	22	15	21	56	114
4620	20	7	24	61	112
4621	25	16	36	77	154
4622	18	10	29	78	135
4623	18	14	15	71	117
4624	28	2	30	80	141
4625	18	9	27	67	121
4626	26	12	32	78	147
MEAN	23	11	27	68	129
S.D.	4.7	4.3	11.0	13.8	15.9
N	23	23	23	23	23

NP=NOT PREGNANT

NPAD=ACCIDENTAL DEATH, NOT PG

x=EXCLUDED FROM MEAN

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APPENDIX K

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3

Animal No.	DAY OF LACTATION					
	1	4	7	14	21	28
1601	334	336	362	391	396	366
1602	320	341	342	377	361	338
1603	315	333	352	378	348	325
1604	331	350	353	386	371	322
1605	313	340	354	375	361	302
1606 DIED						
1607	328	344	340	355	352	317
1608	277	300	318	339	328	302
1609x NP						
1610	286	310	320	347	351	292
1611 TLL	299	293				
1612	323	335	350	371	372	331
1613	322	324	354	379	359	343
1614	302	325	336	354	385	365
1615	306	345	352	372	366	333
1616	364	388	397	409	400	354
1617	313	327	365	375	368	360
1618	332	338	365	374	366	350
1619	310	324	342	355	360	338
1620	296	314	334	354	349	337
1621	336	367	367	392	326	340
1622	307	310	324	326	332	305
1623	267	290	296	307	315	283
1624	325	350	372	390	381	345
1625x NP						
1626	299	307	325	333	342	321
MEAN	313	330	346	365	359	330
S.D.	21.1	23.3	22.1	24.5	21.8	23.2
N	23	23	22	22	22	22

DIED=FOUND DEAD

NP=NOT PREGNANT

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3

Animal No.	DAY OF LACTATION					
	1	4	7	14	21	28
2601	312	313	317	346	335	297
2602	332	325	352	374	366	360
2603	314	298	350	384	366	347
2604	401	399	402	392	410	370
2605	282	292	314	328	325	288
2606	321	328	346	363	372	337
2607	356	368	388	414	407	344
2608	313	318	340	349	351	328
2609x NP						
2610	291	299	314	327	272	298
2611	324	328	337	356	295	331
2612	287	292	327	344	359	325
2613	358	365	378	409	395	376
2614	318	341	344	362	341	333
2615	330	341	362	364	377	336
2616	347	353	363	384	309	307
2617	320	331	325	351	353	314
2618	297	288	321	344	356	305
2619	348	361	375	391	399	368
2620	298	311	337	347	358	339
2621	285	305	323	340	334	302
2622	344	351	370	380	374	346
2623	336	354	365	398	393	360
2624	315	329	371	285	382	370
2625	317	326	328	348	362	319
2626	326	335	360	371	371	326
MEAN	323	330	348	362	358	333
S.D.	27.1	27.6	24.4	28.8	33.8	25.5
N	25	25	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP III 10000 MG/M3

Animal No.	DAY OF LACTATION					
	1	4	7	14	21	28
3601	286	308	327	353	350	300
3602	299	309	324	366	346	315
3603	332	347	362	382	388	349
3604	287	302	325	331	346	310
3605x NP						
3606	277	299	315	335	328	294
3607	307	315	327	362	347	320
3608	329	332	357	392	389	363
3609	336	365	383	414	401	381
3610	293	313	341	362	365	313
3611	283	304	317	325	314	295
3612	300	312	327	338	328	311
3613	294	306	322	340	344	307
3614	357	369	375	394	385	361
3615	320	340	353	371	371	321
3616	326	329	366	382	380	365
3617	297	320	333	363	349	328
3618x NP						
3619	318	353	343	374	390	330
3620	336	336	361	378	372	351
3621	313	321	343	370	368	327
3622	332	356	384	402	394	333
3623	273	285	306	315	328	301
3624	291	312	332	356	374	331
3625	306	324	337	367	351	339
3626	262	284	313	333	321	282
MEAN	306	322	341	363	359	326
S.D.	23.6	23.3	22.3	25.3	25.3	25.5
N	24	24	24	24	24	24

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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APPENDIX K

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3

Animal No.	DAY OF LACTATION					
	1	4	7	14	21	28
4601	360	364	369	379	376	344
4602xNPAD						
4603	350	378	393	402	409	384
4604	301	312	332	349	355	324
4605	292	316	328	353	351	333
4606	297	312	320	333	355	311
4607	333	348	370	391	373	352
4608	311	323	329	354	350	309
4609x NP						
4610	312	332	344	354	346	329
4611	307	322	328	351	356	313
4612	308	335	330	373	372	337
4613	316	335	333	368	350	348
4614	323	331	359	377	387	356
4615	326	324	369	377	387	323
4616	295	298	311	325	328	299
4617x NP						
4618	321	306	353	373	386	345
4619	315	314	333	365	361	301
4620	236	251	232	295	307	296
4621	343	349	366	390	390	352
4622	321	336	345	361	362	331
4623	331	348	372	385	381	339
4624	309	328	351	364	377	323
4625	291	315	331	346	349	329
4626	356	360	392	409	401	365
MEAN	315	328	343	364	366	332
S.D.	26.2	25.8	33.0	25.5	23.5	22.1
N	23	23	23	23	23	23

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG X=EXCLUDED FROM MEAN

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APPENDIX L

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

GROUP I 0 MG/M3

FEMALE#	DAY OF LACTATION					
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28	1 - 28
1601	2	27	28	5	-30	32
1602	21	1	35	-17	-23	17
1603	18	19	26	-30	-24	10
1604	19	3	33	-14	-50	-10
1605	27	14	21	-13	-60	-11
1606 DIED						
1607	16	-4	15	-3	-35	-11
1608	23	18	22	-11	-26	25
1609x NP						
1610	24	11	27	4	-59	6
1611 TLL	-5					
1612	12	14	22	0	-41	8
1613	2	30	24	-20	-17	21
1614	23	11	18	30	-19	64
1615	38	7	20	-6	-33	27
1616	25	9	12	-8	-46	-9
1617	14	38	10	-8	-8	47
1618	6	27	8	-8	-16	18
1619	14	18	13	5	-22	28
1620	18	21	19	-5	-12	41
1621	31	0	24	-65	13	4
1622	3	14	2	6	-27	-2
1623	23	6	11	8	-32	15
1624	25	22	19	-10	-36	21
1625x NP						
1626	8	18	8	9	-21	22
MEAN	17	15	19	-7	-28	17
S.D.	10.5	10.5	8.4	18.1	16.8	19.5
N	23	22	22	22	22	22

DIED=FOUND DEAD

NP=NOT PREGNANT

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

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APPENDIX L

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

GROUP II 2000 MG/M3

FEMALE#	DAY OF LACTATION					
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28	1 - 28
2601	1	3	29	-11	-38	-15
2602	-7	27	22	-8	-6	29
2603	-15	52	34	-18	-19	33
2604	-2	3	-10	18	-39	-30
2605	11	22	14	-2	-38	6
2606	7	18	17	9	-34	16
2607	12	20	26	-7	-63	-12
2608	5	23	9	2	-23	15
2609x NP						
2610	9	15	13	-55	26	7
2611	4	10	18	-60	35	7
2612	5	35	17	15	-34	38
2613	7	13	31	-14	-19	18
2614	23	3	18	-21	-8	15
2615	11	21	1	14	-41	7
2616	6	10	20	-75	-1	-39
2617	11	-6	26	2	-39	-6
2618	-9	33	23	13	-51	8
2619	13	13	16	8	-31	20
2620	13	26	10	11	-19	41
2621	20	18	17	-6	-33	17
2622	6	19	10	-6	-28	2
2623	18	11	32	-5	-33	24
2624	13	43	-86	96	-12	55
2625	10	2	19	15	-44	2
2626	9	24	11	1	-45	0
MEAN	7	18	14	-3	-25	10
S.D.	8.8	13.3	22.9	31.6	22.3	21.3
N	25	25	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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APPENDIX L

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

GROUP III 10000 MG/M3

FEMALE#	DAY OF LACTATION					
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28	1 - 28
3601	22	19	26	-3	-50	14
3602	10	16	42	-20	-31	16
3603	16	15	20	7	-39	17
3604	15	23	6	14	-35	23
3605x NP						
3606	22	16	20	-7	-34	17
3607	8	12	35	-15	-27	13
3608	3	25	36	-4	-25	34
3609	29	18	31	-13	-20	45
3610	21	28	20	3	-52	21
3611	22	12	9	-12	-19	13
3612	12	15	12	-10	-17	11
3613	13	16	18	3	-37	13
3614	13	5	19	-9	-24	5
3615	19	14	17	0	-49	1
3616	3	37	16	-2	-15	39
3617	24	12	30	-14	-21	31
3618x NP						
3619	35	-10	32	16	-60	11
3620	0	26	17	-6	-21	15
3621	8	22	28	-3	-41	14
3622	24	29	17	-8	-61	1
3623	13	21	9	14	-28	28
3624	20	20	24	18	-43	40
3625	17	14	30	-17	-12	32
3626	21	30	20	-12	-40	20
MEAN	16	18	22	-3	-33	20
S.D.	8.4	9.3	9.2	10.7	14.1	12.0
N	24	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

GROUP IV 20000 MG/M3

FEMALE#	DAY OF LACTATION					
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28	1 - 28
4601	4	5	10	-3	-33	-17
4602xNPAD						
4603	28	15	9	6	-25	34
4604	11	20	18	5	-31	23
4605	25	12	25	-1	-18	42
4606	15	9	13	22	-44	14
4607	15	22	21	-18	-21	19
4608	13	6	25	-4	-41	-2
4609x NP						
4610	20	12	9	-7	-17	17
4611	15	6	23	5	-43	6
4612	28	-5	43	-1	-35	29
4613	19	-2	35	-18	-2	32
4614	8	28	18	10	-31	33
4615	-2	45	8	10	-64	-3
4616	3	13	15	3	-29	4
4617x NP						
4618	-15	47	20	13	-41	24
4619	-1	19	33	-5	-60	-14
4620	16	-20	63	13	-11	61
4621	6	17	24	-1	-38	9
4622	16	9	16	1	-32	10
4623	17	25	12	-4	-41	8
4624	19	23	13	13	-54	15
4625	24	16	15	3	-20	38
4626	5	31	17	-8	-36	9
MEAN	12	15	21	2	-33	17
S.D.	10.3	14.8	12.7	9.7	15.0	18.3
N	23	23	23	23	23	23

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG x=EXCLUDED FROM MEAN

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

MALES GROUP I 0 MG/M3

ANIMAL#	DAY OF STUDY		7	14	21	28	35	42	49	56	63	69	91	98	105	112
	-7	0														
1101	130	108	96	84	81	80	70	70	63	64	65	61	53	52	53	
1102	127	113	97	90	83	73	71	70	66	63	60	59	54	53	47	
1103	140	106	93	80	77	67	66	64	61	57	55	53	52	53	41	
1104	130	105	93	82	75	72	66	62	59	57	55	52	50	49	48	
1105	134	109	97	83	79	71	67	63	63	60	55	53	50	50	48	
1106	123	93	86	80	79	72	71	71	66	65	63	61	54	53	48	
1107	125	100	90	86	76	66	71	70	62	61	57	58	50	51	45	
1108	128	108	87	81	78	71	66	66	63	57	60	55	52	50	50	
1109	122	98	89	83	77	66	67	62	64	63	55	53	46	48	44	
1110	134	106	96	86	81	72	70	69	69	66	61	59	52	53	52	
1111	127	104	90	83	77	66	64	64	62	59	57	55	46	45	41	
1112	129	105	89	84	75	63	64	69	70	65	58	59	52	53	52	
1113	126	107	91	80	79	66	66	72	66	62	62	58	55	55	45	
1114	132	108	95	90	81	73	74	65	56	38	72	64	53	53	49	
1115	121	100	89	80	74	69	68	66	62	62	57	54	51	53	47	
1116	130	121	106	SF	93	77	77	80	74	72	62	61	52	53	48	
1117	126	104	100	85	80	77	71	68	66	67	63	60	54	55	52	
1118	133	110	94	86	80	73	68	68	70	63	60	58	52	52	48	
1119	138	116	103	94	86	76	72	68	69	66	63	58	55	54	51	
1120	125	103	88	77	78	69	74	71	64	61	58	57	56	53	51	
1121	131	109	96	87	80	69	67	68	63	62	61	55	53	55	50	
1122	136	113	99	91	86	79	75	71	68	66	62	58	55	55	52	
1123	128	106	95	84	77	73	68	68	65	61	59	56	52	52	49	
1124	133	103	89	84	76	69	65	66	51	62	61	56	50	51	46	
1125	134	110	95	86	84	79	73	70	70	64	61	58	55	54	49	
1126	140	116	104	89	81	69	68	68	64	63	60	56	53	51	51	
MEAN	130	107	94	85	80	71	69	68	64	62	60	57	52	52	48	
S.D.	5.3	6.0	5.3	4.1	4.1	4.5	3.4	3.9	4.7	5.9	3.7	2.9	2.5	2.4	3.2	
N	26	26	26	25	26	26	26	26	26	26	26	26	26	26	26	

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

MALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY															
	-7	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
2101	138	111	97	92	83	79	73	71	65	62	56	59	51	51	47	
2102	130	101	91	85	76	75	70	66	60	55	54	53	49	46	47	
2103	127	102	93	82	73	68	65	64	61	53	64	60	53	51	49	
2104	117	96	86	79	72	71	63	61	60	56	55	56	49	48	46	
2105	133	108	90	82	75	70	65	68	62	59	55	57	48	47	49	
2106	130	106	91	84	77	71	67	65	61	60	59	58	54	52	50	
2107	133	109	101	81	82	75	75	71	68	67	64	56	52	54	53	
2108	123	106	93	82	75	63	62	67	58	54	56	53	46	47	45	
2109	129	103	89	80	74	68	69	67	68	61	58	56	48	46	48	
2110	120	99	85	72	70	63	63	63	60	58	53	54	51	48	46	
2111	129	102	89	79	73	68	63	63	61	61	55	58	49	53	49	
2112	121	96	85	78	80	67	63	68	64	59	64	62	52	51	50	
2113	132	106	92	80	78	70	65	67	70	67	58	66	56	56	49	
2114	124	99	86	75	72	60	65	60	61	60	57	51	52	51	46	
2115	127	105	94	78	76	71	68	64	64	60	58	60	49	49	46	
2116	132	111	93	81	76	67	65	64	62	59	54	57	50	50	47	
2117	131	104	90	79	75	68	64	60	61	59	57	57	49	48	46	
2118	119	99	89	80	74	68	68	66	61	58	57	58	48	48	45	
2119	133	108	88	87	76	63	63	61	59	58	55	55	47	49	45	
2120	147	116	100	84	75	72	68	66	63	62	58	59	53	52	47	
2121	127	SF	92	90	87	72	70	69	65	64	58	57	52	53	50	
2122	125	101	87	77	72	62	65	62	36	61	58	58	53	53	50	
2123	127	104	92	84	79	79	70	69	66	64	65	59	49	62	52	
2124	130	106	89	83	78	69	66	65	62	60	56	57	52	51	48	
2125	130	108	90	77	75	70	65	63	66	63	59	62	54	34	49	
2126	131	108	94	78	75	73	66	64	62	54	57	61	52	52	46	
MEAN	129	105	91	81	76	69	66	65	62	60	58	58	51	50	48	
S.D.	6.3	4.9	4.0	4.3	3.8	4.8	3.2	3.1	6.0	3.6	3.3	3.3	2.4	4.8	2.3	
N	26	25	26	26	26	26	26	26	26	26	26	26	26	26	26	

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES		GROUP III		10000 MG/M3		INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)											
		DAY OF STUDY															
ANIMAL#	-7	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112	
3101	134	116	90	83	74	66	63	62	60	58	55	58	44	52	49		
3102	138	115	97	89	78	66	66	67	66	63	63	60	49	58	52		
3103	124	106	85	79	72	67	64	64	58	57	52	61	48	35	15		
3104	129	113	89	82	82	74	71	72	64	60	59	56	46	53	49		
3105	132	108	89	78	70	61	62	57	59	61	55	55	45	50	51		
3106	137	120	97	87	80	68	68	66	60	68	64	64	51	57	52		
3107	128	113	91	85	75	68	65	68	65	62	59	61	48	51	53		
3108	135	112	93	85	74	68	63	71	63	61	60	57	41	49	46		
3109	128	109	87	80	71	64	60	61	54	53	51	51	42	45	45		
3110	131	111	90	83	75	66	65	63	62	60	56	56	44	51	46		
3111	137	117	96	87	80	73	69	79	68	66	59	59	47	53	51		
3112	133	116	93	84	78	72	67	95	63	63	63	61	55	57	52		
3113	118	101	76	71	69	63	63	89	61	61	59	60	50	58	51		
3114	127	108	89	77	70	62	61	61	57	56	58	58	48	54	48		
3115	130	104	82	76	72	67	64	63	59	56	55	57	45	48	47		
3116	137	115	90	79	76	73	SF	66	66	59	64	60	50	53	47		
3117	133	118	90	83	76	68	66	67	42	61	59	62	49	55	50		
3118	134	118	92	81	76	68	67	97	66	63	60	61	58	50	45		
3119	142	124	98	88	77	72	67	65	64	59	59	58	52	53	47		
3120	134	113	88	82	75	69	64	74	41	59	57	58	49	53	48		
3121	128	113	90	80	75	69	67	66	61	61	61	62	58	66	55		
3122	139	118	90	81	74	67	65	59	58	55	53	56	46	47	45		
3123	142	125	94	83	81	67	68	66	68	66	63	65	56	55	49		
3124	139	115	91	79	74	71	63	63	60	62	59	57	51	51	50		
3125	137	115	91	80	75	66	65	64	35	60	58	54	50	46	45		
3126	129	109	83	78	70	66	67	62	61	58	57	57	45	51	46		
MEAN	133	114	90	81	75	68	65	69	59	60	58	59	49	52	47		
S.D.	5.6	5.5	4.8	4.0	3.6	3.3	2.6	10.3	8.2	3.5	3.5	3.2	4.5	5.5	7.2		
N	26	26	26	26	26	26	25	26	26	26	26	26	26	26	26		

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

MALES		GROUP IV		20000 MG/M3		INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)											
ANIMAL#	DAY OF STUDY			14	21	28	35	42	49	56	63	69	91	98	105	112	
	-7	0	7														
4101	127	108	86	81	77	68	70	66	67	64	64	63	51	58	55		
4102	125	111	91	84	77	72	69	71	66	62	60	61	47	53	51		
4103	120	99	80	72	71	62	61	59	61	57	56	57	41	47	48		
4104	SF	111	94	83	76	66	57	62	59	59	59	55	43	51	53		
4105	126	105	89	80	75	67	65	62	60	60	61	60	46	53	52		
4106	137	112	90	64	79	70	71	74	71	SF	69	70	52	59	54		
4107	128	104	85	78	76	69	68	71	64	62	60	61	48	58	49		
4108	137	113	90	82	77	72	68	65	62	60	59	60	45	54	49		
4109	125	103	89	78	77	69	66	57	54	60	58	65	49	53	48		
4110	128	105	88	80	70	67	65	71	59	61	59	57	45	51	48		
4111	125	106	87	79	74	69	63	65	59	59	60	58	47	53	53		
4112	131	108	87	83	79	73	70	70	66	67	67	65	49	56	54		
4113	131	111	93	90	81	74	69	67	66	67	61	61	50	55	52		
4114	136	112	93	85	79	76	SF	71	67	67	69	73	63	58	52		
4115	SF	103	81	76	70	66	65	59	62	60	60	58	48	51	47		
4116	128	110	87	79	76	69	69	67	64	64	60	59	49	51	50		
4117	122	100	84	78	71	62	61	58	57	61	63	56	45	54	49		
4118	132	110	84	75	70	56	68	64	73	67	63	58	47	54	52		
4119	133	118	92	85	80	67	69	69	67	71	66	65	54	57	51		
4120	121	102	82	79	73	69	66	66	43	61	62	61	51	51	50		
4121	148	128	104	93	83	74	73	69	66	69	67	60	55	56	54		
4122	125	108	89	81	74	71	72	70	64	62	60	59	50	55	51		
4123	128	111	91	83	72	58	70	67	65	64	62	61	52	56	52		
4124	122	99	81	71	68	66	65	62	59	59	55	59	50	49	48		
4125	137	115	94	87	79	72	68	67	67	69	63	61	56	53	52		
4126	131	111	90	78	73	70	70	66	64	61	61	61	57	56	51		
MEAN	129	109	88	80	75	68	67	66	63	63	62	61	49	54	51		
S.D.	6.5	6.4	5.1	6.0	3.9	4.8	3.8	4.5	6.0	3.9	3.7	4.1	4.6	3.0	2.3		
N	24	26	26	26	26	26	25	26	26	25	26	26	26	26	26		

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)													
FEMALES GROUP I 0 MG/M3													
ANIMAL#	DAY OF STUDY		7	14	21	28	35	42	49	56	63	69	91
	-7	0											
1601	138	115	94	93	85	88	83	84	75	82	89	75	
1602	128	105	96	90	84	79	77	74	66	65	67	70	
1603	137	111	99	92	88	89	80	75	74	81	74	71	
1604	137	116	107	100	91	93	87	82	76	75	71	73	
1605	133	SF	100	101	98	96	87	90	83	74	76	80	
1606	128	104	108	98	99	98	90	85	73	73	69	78	
1607	140	117	102	103	93	89	83	83	76	71	66	80	
1608	141	121	108	96	92	85	81	80	80	71	71	88	
1609	128	SF	104	101	100	89	82	87	80	68	76	77	
1610	140	115	104	92	95	94	84	85	81	76	76	88	
1611	125	102	94	95	86	84	87	93	81	73	73	76	57
1612	144	112	109	101	98	96	90	91	80	75	73	75	
1613	141	117	96	91	87	82	77	78	74	71	71	81	
1614	136	114	91	91	86	87	85	84	80	75	75	81	
1615	133	108	96	87	86	84	79	74	69	68	63	76	
1616	136	108	100	94	85	87	83	81	73	71	70	76	
1617	133	107	97	93	86	89	81	78	74	70	70	77	
1618	140	119	108	106	100	92	89	84	83	74	76	81	
1619	128	109	95	91	87	81	77	71	68	67	72	74	
1620	137	112	95	94	90	83	85	83	78	72	74	79	
1621	132	112	97	96	88	85	83	78	73	70	75	80	
1622	146	115	103	99	100	93	87	83	82	69	77	82	
1623	139	111	102	105	98	92	89	84	79	76	77	82	
1624	149	120	105	104	96	90	81	84	83	81	81	84	
1625	134	115	106	104	100	92	83	78	79	79	74	83	
1626	146	124	114	112	100	102	100	86	89	79	80	80	
MEAN	137	113	101	97	92	89	84	82	77	73	74	79	57
S.D.	6.2	5.6	5.8	6.0	6.0	5.6	5.0	5.4	5.3	4.4	5.1	4.6	0.0
N	26	24	26	26	26	26	26	26	26	26	26	26	1

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)													
FEMALES GROUP II 2000 MG/M3													
ANIMAL#	DAY OF STUDY												
	-7	0	7	14	21	28	35	42	49	56	63	69	91
2601	130	112	96	94	93	89	83	84	79	78	73	82	
2602	126	105	90	89	81	84	78	79	70	66	69	69	
2603	134	115	100	100	89	84	83	83	78	76	77	81	
2604	140	124	101	109	99	82	85	79	76	70	72	71	
2605	132	110	99	91	90	87	84	79	74	79	88	68	
2606	140	106	88	90	91	85	81	81	84	72	86	68	
2607	136	111	95	88	82	87	78	75	75	74	72	70	
2608	136	109	98	89	86	89	87	83	78	72	72	72	
2609	138	114	96	97	85	88	84	84	74	72	82	69	
2610	142	119	98	89	85	81	75	78	72	69	70	68	
2611	131	110	88	91	86	81	73	78	43	70	65	71	
2612	146	120	89	96	88	84	81	80	79	68	77	77	
2613	146	119	100	96	92	90	84	85	78	77	83	74	
2614	151	123	109	100	94	87	88	80	72	70	76	80	
2615	141	114	91	85	79	76	78	68	65	66	69	68	
2616	134	112	94	91	91	83	80	76	70	64	68	69	
2617	151	134	107	98	92	88	83	74	77	76	74	73	
2618	145	120	97	89	80	78	78	73	68	68	76	69	
2619	136	118	100	94	89	86	84	76	75	73	69	79	
2620	133	114	93	86	87	80	SF	72	75	62	69	68	
2621	141	125	96	95	91	87	76	82	71	65	71	77	
2622	145	127	100	97	90	84	74	74	71	73	65	65	
2623	143	123	89	92	91	86	82	80	76	70	71	75	
2624	137	117	94	94	91	85	84	66	62	63	76	70	
2625	144	116	100	96	94	90	83	79	76	76	71	66	
2626	145	122	106	102	95	87	78	76	73	70	80	73	
MEAN	139	117	97	94	89	85	81	78	73	71	74	72	
S.D.	6.5	6.9	5.7	5.4	4.8	3.7	3.9	4.8	7.6	4.7	6.0	4.9	
N	26	26	26	26	26	26	25	26	26	26	26	26	

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY		7	14	21	28	35	42	49	56	63	69	91	98	105	112
	-7	0														
3601	131	106	92	94	85	80	78	79	72	70	65	70				
3602	126	CF	90	88	86	84	79	78	82	75	71	75				
3603	136	111	97	89	87	85	76	74	70	70	63	62				
3604	142	115	92	92	85	84	79	76	74	74	67	66				
3605	141	117	96	88	90	81	78	87	75	70	68	65				
3606	136	112	101	88	88	81	77	78	77	72	67	68				
3607	128	110	95	88	83	84	77	77	76	73	65	70				
3608	127	111	89	81	84	82	74	77	80	74	71	78				
3609	134	114	85	91	78	77	73	70	71	67	62	65				
3610	138	113	97	87	89	82	82	86	77	74	75	74				
3611	133	SF	92	95	85	84	83	79	82	75	72	82				
3612	SF	129	108	102	93	SF	SF	82	78	73	76	74				
3613	SF	SF	SF	SF	83	SF	81	73	75	64	75	69				
3614	135	111	94	87	80	86	78	72	71	65	63	71				
3615	145	116	96	85	85	82	75	72	67	65	63	65				
3616	133	111	96	88	82	81	80	77	71	70	68	69				
3617	139	SF	110	106	96	SF	SF	91	74	70	74	82				
3618	146	128	98	98	89	96	85	83	83	84	78	80	78	77	55	
3619	134	109	90	88	84	84	79	74	73	69	66	69				
3620	126	109	91	93	79	81	77	78	75	67	65	70				
3621	140	116	99	95	87	85	80	90	77	72	69	71				
3622	140	114	90	91	87	79	76	86	75	70	66	67				
3623	136	115	96	90	87	SF	77	74	72	71	68	70				
3624	133	SF	92	89	83	95	67	71	78	83	SF	75				
3625	139	115	SF	94	88	79	77	76	76	74	65	74				
3626	140	113	96	89	87	80	73	76	72	73	69	74				
MEAN	136	114	95	91	86	83	78	78	75	72	68	71	78	77	55	
S.D.	5.6	5.5	5.7	5.4	4.0	4.5	3.7	5.8	3.9	4.7	4.5	5.3	0.0	0.0	0.0	
N	24	21	24	25	26	22	24	26	26	26	25	26	1	1	1	

CF=Contaminated Feeder

SF=Spilled Feeder

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APPENDIX M

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES GROUP IV			20000 MG/M3		INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)											
ANIMAL#	DAY OF STUDY			14	21	28	35	42	49	56	63	69	91	98	105	112
	-7	0	7													
4601	144	126	103	105	106	103	94	102	97	94	91	82				
4602	142	123	101	99	90	88	84	77	85	76	72					
4603	139	119	101	91	85	85	78	81	74	76	73	64				
4604	136	115	91	86	82	78	78	70	70	73	73	68				
4605	137	122	102	87	90	84	81	79	76	74	70	68				
4606	145	124	96	95	93	91	89	84	84	78	77	74				
4607	141	127	97	96	102	85	81	82	79	72	80	78				
4608	145	123	95	98	93	87	82	81	103	74	69	73				
4609	135	118	94	93	88	84	77	76	78	67	69	70				
4610	150	132	102	SF	90	94	81	SF	87	80	70	69				
4611	137	122	94	95	90	91	82	78	77	72	71	72				
4612	149	126	100	97	91	84	78	81	78	70	74	71				
4613	145	126	103	93	94	83	81	82	77	74	68	69				
4614	144	125	91	86	82	84	75	76	71	65	76	67				
4615	141	121	90	85	79	78	73	72	71	66	66	68				
4616	154	134	107	102	94	89	83	82	82	73	69	73				
4617	147	124	97	89	86	84	76	72	71	74	70	71				
4618	143	111	91	92	83	80	78	81	75	70	70	75				
4619	138	120	91	87	84	85	77	74	74	73	70	71				
4620	130	112	95	88	85	80	78	71	73	70	67	65				
4621	157	134	108	103	96	93	93	94	91	83	80	85				
4622	143	124	95	91	85	83	82	79	80	77	81	73				
4623	149	124	95	93	90	84	SF	78	75	78	68	76				
4624	135	118	95	93	88	86	74	81	71	68	70	73				
4625	156	138	107	102	94	94	86	82	79	46	69	74				
4626	155	129	94	94	89	85	77	76	75	81	76	67				
MEAN	144	124	98	94	89	86	81	80	79	73	73	72				
S.D.	7.1	6.4	5.3	5.7	6.1	5.5	5.3	6.9	8.3	8.2	5.6	4.9				
N	26	26	26	25	26	26	25	25	26	26	26	25				

SF=Spilled Feeder

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APPENDIX N

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP I 0 MG/M3

ANIMAL#	DAY OF GESTATION			
	0 - 4	4 - 7	7 - 14	14 - 20
1601	81	86	82	68
1602	64	67	64	58
1603	85	82	81	67
1604	74	76	74	68
1605	83	85	80	70
1606 DIED	77	76	75	67
1607	81	85	83	68
1608	89	85	77	71
1609x NP	79	82	73	64
1610	71	79	71	59
1611 TLL	87	88	87	73
1612	80	79	81	69
1613	86	86	83	69
1614	85	83	81	65
1615	74	82	76	60
1616	78	81	79	68
1617	71	72	72	64
1618	77	83	80	68
1619	69	69	69	64
1620	85	72	79	69
1621	76	74	75	65
1622	70	79	73	65
1623	77	79	75	65
1624	89	83	82	71
1625x NP	87	80	71	56
1626	74	82	78	67
MEAN	79	80	77	67
S.D.	6.8	5.7	5.2	3.8
N	24	24	24	24

DIED=FOUND DEAD NP=NOT PREGNANT TLL=TOTAL LITTER LOSS x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP II 2000 MG/M3

ANIMAL#	DAY OF GESTATION			
	0 - 4	4 - 7	7 - 14	14 - 20
2601	85	82	78	60
2602	74	74	64	56
2603	86	86	81	70
2604	77	77	76	58
2605	80	80	79	70
2606	80	79	77	67
2607	83	80	77	64
2608	78	79	75	69
2609x NP	74	69	65	49
2610	69	75	71	63
2611	72	69	72	65
2612	84	83	73	64
2613	78	78	78	59
2614	90	85	82	68
2615	72	70	68	63
2616	73	75	72	63
2617	72	75	73	64
2618	72	76	79	65
2619	70	70	66	57
2620	70	77	75	62
2621	62	70	72	63
2622	70	72	72	67
2623	75	73	79	66
2624	74	73	68	57
2625	80	87	79	69
2626	76	84	75	67
MEAN	76	77	74	64
S.D.	6.4	5.3	4.7	4.2
N	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP III 10000 MG/M3

ANIMAL#	DAY OF GESTATION			
	0 - 4	4 - 7	7 - 14	14 - 20
3601	81	82	80	75
3602	87	80	80	69
3603	71	73	73	64
3604	77	81	74	67
3605x NP	76	84	77	64
3606	76	77	75	70
3607	73	71	70	63
3608	110	74	69	57
3609	69	71	66	58
3610	81	82	79	64
3611	80	77	77	65
3612	94	89	78	67
3613	78	79	73	67
3614	74	77	71	62
3615	69	63	65	61
3616	77	72	74	66
3617	73	70	69	61
3618x NP				
3619	71	69	70	66
3620	76	75	75	64
3621	70	71	69	63
3622	76	71	82	63
3623	75	74	75	61
3624	88	89	86	81
3625	78	83	73	66
3626	108	76	73	67
MEAN	80	76	74	65
S.D.	10.8	6.4	5.1	5.0
N	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL GESTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP IV 20000 MG/M3

ANIMAL#	DAY OF GESTATION			
	0 - 4	4 - 7	7 - 14	14 - 20
4601	84	86	78	74
4602xNPAD				
4603	79	74	74	61
4604	75	74	69	62
4605	82	76	73	65
4606	81	80	78	69
4607	84	86	82	59
4608	82	84	77	69
4609x NP	67	67	64	62
4610	72	78	75	68
4611	76	80	79	73
4612	84	77	64	58
4613	74	78	72	62
4614	70	66	67	55
4615	74	77	71	66
4616	71	78	77	72
4617x NP	68	68	71	57
4618	77	77	74	67
4619	77	76	75	73
4620x EX	62	67	67	62
4621	92	94	88	71
4622	76	76	74	69
4623	74	76	70	63
4624	78	75	75	67
4625	74	79	77	69
4626	71	75	73	65
MEAN	78	78	75	66
S.D.	5.4	5.5	5.3	5.2
N	22	22	22	22

NP=NOT PREGNANT

NPAD=ACCIDENTAL DEATH, NOT PG

EX=EXCLUDED FROM TABLE

x=EXCLUDED FROM MEAN

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APPENDIX O

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP I 0 MG/M3

ANIMAL#	DAY OF LACTATION				
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28
1601	84	104	144	166	301
1602	100	122	161	204	380
1603	107	131	156	183	338
1604	111	111	153	195	IW
1605	120	119	159	205	EF
1606 DIED					
1607	141	88	154	186	332
1608	119	133	160	199	354
1609x NP					
1610	102	121	164	205	IW
1611 TLL					
1612	116	107	151	180	325
1613	95	121	144	176	310
1614	96	121	155	186	287
1615	115	126	146	174	341
1616	100	109	129	174	346
1617	96	123	135	167	300
1618	85	107	128	170	319
1619	108	123	138	177	313
1620	100	115	146	168	308
1621	113	115	144	192	380
1622	75	109	127	188	360
1623	102	123	149	203	369
1624	115	126	146	196	323
1625x NP					
1626	107	131	152	200	344
MEAN	105	118	147	186	333
S.D.	14.2	10.6	10.8	13.4	27.3
N	22	22	22	22	19

DIED=FOUND DEAD NP=NOT PREGNANT TLL=TOTAL LITTER LOSS
IW=Invalid Weight: Feed left greater than feed fed weight

x=EXCLUDED FROM MEAN
EF=Empty Feeder

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APPENDIX O

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP II 2000 MG/M3

ANIMAL#	DAY OF LACTATION				
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28
2601	67	91	135	171	EF
2602	66	102	132	161	310
2603	SF	130	155	176	343
2604	49	79	102	129	220
2605	126	121	152	189	358
2606	99	96	131	169	312
2607	91	107	134	157	304
2608	86	125	126	187	329
2609x NP					
2610	111	120	150	201	382
2611	74	92	111	155	EF
2612	85	97	143	182	335
2613	91	98	136	170	309
2614	112	118	153	200	338
2615	95	105	99	166	EF
2616	86	101	129	159	359
2617	97	102	165	167	312
2618	62	125	150	178	354
2619	84	106	140	182	307
2620	95	127	140	183	336
2621	97	115	138	187	333
2622	85	111	147	182	339
2623	95	109	148	177	EF
2624	81	106	128	180	292
2625	96	92	132	176	303
2626	100	120	145	183	337
MEAN	89	108	137	175	324
S.D.	16.9	13.2	15.7	15.2	32.9
N	24	25	25	25	21

NP=NOT PREGNANT x=EXCLUDED FROM MEAN
EF=Empty Feeder SF=Spilled Feeder

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP III 10000 MG/M3

ANIMAL#	DAY OF LACTATION				
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28
3601	124	142	160	192	347
3602	92	104	155	166	324
3603	90	116	144	179	309
3604	105	113	146	178	BF
3605x NP					
3606	88	108	145	171	IW
3607	105	114	141	165	321
3608	63	107	140	174	301
3609	89	95	126	146	244
3610	89	112	136	177	351
3611	127	128	152	189	362
3612	117	114	139	181	345
3613	84	108	139	162	EF
3614	91	100	137	167	301
3615	94	105	129	158	EF
3616	99	123	141	183	322
3617	105	113	142	160	308
3619	112	104	142	195	344
3620	78	99	132	179	316
3621	109	121	145	185	323
3622	91	109	130	159	304
3623	101	119	140	196	314
3624	85	111	147	184	324
3625	86	113	134	171	285
3626	111	116	141	174	EF
MEAN	97	112	141	175	318
S.D.	14.9	9.9	7.9	12.6	26.8
N	24	24	24	24	19

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

BF=Broken Feeder

IW=Invalid Weight: Feed left greater than feed fed weight

EF=Empty Feeder

15-MAY-2002 08:27

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APPENDIX O

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATERNAL LACTATION FEED CONSUMPTION -- (GRAMS/KG/DAY)

GROUP IV 20000 MG/M3

ANIMAL#	DAY OF LACTATION				
	1 - 4	4 - 7	7 - 14	14 - 21	21 - 28
4601	59	75	100	130	IW
4603	109	108	139	183	312
4604	75	104	131	169	274
4605	117	126	150	197	334
4606	106	122	148	169	286
4607	77	110	117	151	270
4608	104	99	146	186	332
4609x NP					
4610	117	104	139	172	320
4611	110	114	147	187	337
4612	116	119	142	175	307
4613	104	105	142	182	IW
4614	84	114	135	169	308
4615	89	106	136	155	276
4616	84	104	136	193	369
4617x NP					
4618	89	127	138	158	286
4619	77	102	127	158	SF
4620x EX	101	111	139	151	247
4621	122	121	143	173	307
4622	115	123	136	182	319
4623	119	107	135	166	300
4624	120	113	126	176	293
4625	85	109	131	164	263
4626	92	114	131	155	283
MEAN	99	110	135	170	304
S.D.	18.1	11.3	11.1	15.6	27.2
N	22	22	22	22	19

NP=NOT PREGNANT EX=EXCLUDED FROM TABLE x=EXCLUDED FROM MEAN
IW=Invalid Weight: Feed left greater than feed fed weight SF=Spilled Feeder

	Individual Estrous Cycle and Mating Data Preface	Appendix P
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Estrous Stage Codes:

D = Diestrus

P = Proestrus

E = Estrus

M = Metestrus

Ps = Pseudopregnancy

C = Copulatory plug under cage

S = Sperm in vaginal smear

Cycle Codes:

NC = Number of cycles (days)

C_n = Length of cycles (days)

ML = Mean length of cycle

X = Persistent diestrus, length not determined

Y = Persistent estrus, length not determined

Mating and Pregnancy Codes:

F = Number of failed mating opportunities

PS = Pregnancy status

P = Pregnant

NP = Not pregnant

Notes:

Estrous cycles were evaluated for 21 days and then up to successful mating.

/ = point from which the number of days in the estrous cycle is counted.

/C, C, /S or S = evidence of mating

Pre-Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 1: 0 mg/m³

Animal No.	Pre-Mating Period																					Cycles						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C ₁	C ₂	C ₃	C ₄	C ₅	ML	NC
1601	/E	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	/E	E	D	D	5	Ps				5.0	1
1602	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	D	/E	D	4	4	4	5		4.3	4
1603	/E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	E	D	D	Ps					-	-
1604	/E	D	D	D	D	/E	D	D	D	D	D	D	/E	D	D	D	D	D	D	D	D	5	7	Ps			6.0	2
1605	/E	E	D	D	D	/E	D	D	D	D	D	/E	D	D	D	/E	E	D	D	D	/E	5	6	4	5		5.0	4
1606	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	4	4	4	4		4.0	4
1607	D	/E	D	D	D	D	/E	D	D	/E	D	D	D	D	/E	M	D	D	/E	D	D	5	3	5	4		4.3	4
1608	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	4	4	4	4		4.0	4
1609	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	D	/E	E	M	D	D	/E	5	4	5	5		4.8	4
1610	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	D	D	D	D	4	4	4	Ps		4.0	3
1611	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	4	4	4	4		4.0	4
1612	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	4	4	4	4		4.0	4
1613	D	/E	D	D	D	/E	E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	4	5	4	4		4.3	4
1614	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	P	/E	M	D	D	/E	M	4	4	5	4		4.3	4
1615	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4	4	4.0	5
1616	D	/E	D	D	D	/E	D	/E	D	/E	D	/E	D	D	D	/E	M	D	D	/E	D	4	2	2	2	4	2.8	6
1617	D	D	D	/E	D	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	M	D	D	4	5	5			4.7	3
1618	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	/E	E	D	D	D	4	Ps				4.0	1
1619	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	M	D	D	/E	M	Ps	4				4.0	1
1620	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	4	4	4	4		4.0	4
1621	D	D	D	/E	D	D	D	/E	D	/E	D	D	D	D	/E	M	D	D	P	/E	M	4	2	5	5		4.0	4
1622	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	4	4	4	4		4.0	4
1623	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	4	4	4	4		4.0	4
1624	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	D	D	5	5	5			5.0	3
1625	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4	4	4.0	5
1626	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	4	4	4	4		4.0	4

Mean	4.2	3.6
S.D.	0.6	1.2
n	25	25

Pre-Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 2: 2000 mg/m³

Group 2: 2000 High		Pre-Mating Period																					Cycles						
																							C ₁	C ₂	C ₃	C ₄	C ₅	ML	NC
Animal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C ₁	C ₂	C ₃	C ₄	C ₅	ML	NC	
2601	D	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4			4.0	3	
2602	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	5	4	4	4		4.3	4	
2603	D	D	D	D	/E	D	D	D	/E	D	D	D	P	/E	D	D	D	/E	D	D	D	4	5	4			4.3	3	
2604	D	/E	D	D	D	/E	E	D	D	D	D	D	/E	D	D	D	P	/E	D	D	D	4	7	5			5.3	3	
2605	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D	4	Ps				4.0	1	
2606	D	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D	4	Ps				4.0	1	
2607	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5	
2608	D	/E	E	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	P	/E	D	D	6	11				8.5	2	
2609	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D	4	Ps				4.0	1	
2610	D	D	D	/E	D	D	D	/E	D	D	D	D	D	D	D	/E	M	D	D	/E	D	4	8	4			5.3	3	
2611	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	4	4	4	4		4.0	4	
2612	D	/E	E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	D	D	6	5	5			5.3	3	
2613	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	Ps					-	-	
2614	D	D	D	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E		4	4	4			4.0	3	
2615	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	4	4	4	4		4.0	4	
2616	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	4	4	4	4		4.0	4	
2617	D	/E	E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	6	5	4			5.0	3	
2618	D	D	D	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	/E	M	4	Ps				4.0	1	
2619	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	4	Ps				4.0	1		
2620	D	D	/E	E	D	D	D	D	D	D	D	D	/E	D	D	D	D	/E	D	D	D	10	5				7.5	2	
2621	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E		Ps					-	-	
2622	D	D	D	D	/E	D	D	D	D	D	/E	D	D	/E	D	D	D	/E	D	D	D	6	3	4			4.3	3	
2623	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4	4	4.0	5	
2624	/E	M	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	4	Ps				4.0	1		
2625	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	/E	D	/E	4	4	4	4	2	3.6	5	
2626	D	D	D	/E	E	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D		Ps					-	-	

Mean	4.6	2.8
S.D.	1.2	1.4
n	23	23

Pre-Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 3: 10000 mg/m³

Animal No.	Pre-Mating Period																					Cycles						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C ₁	C ₂	C ₃	C ₄	C ₅	ML	NC
3601	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	4	4	4	4		4.0	4
3602	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	4	4	4	4		4.0	4
3603	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4	4	4.0	5
3604	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
3605	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
3606	/E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	/E	E	4	6	4	5		4.8	4
3607	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	4	4	4	4		4.0	4
3608	D	D	D	/E	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	5	Ps				5.0	1
3609	D	D	D	D	D	D	/E	D	D	D	D	D	/E	D	D	D	D	/E	D	D	D	6	5				5.5	2
3610	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
3611	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	4	4	4	4		4.0	4
3612	D	/E	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	2	4	4	4	4	3.6	5
3613	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4		4.0	4
3614	D	D	D	D	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	5	5	4			4.7	3
3615	D	D	/E	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	D	P	/E	M	D	2	4	4	6		4.0	4
3616	D	D	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	4	4	4			4.0	3
3617	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
3618	/E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	D	/E	E	Y					-	-
3619	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	4	4	4	4		4.0	4
3620	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
3621	D	/E	E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	M	D	D	6	5	5			5.3	3
3622	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	4	4	4	4		4.0	4
3623	/E	M	D	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	5	4	4		4.3	4
3624	D	D	D	D	D	D	D	D	D	/E	D	D	D	/E	D	D	D	P	/E	M	D	4	5				4.5	2
3625	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
3626	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4

Mean	4.2	3.8
S.D.	0.5	1.0
n	25	25

Pre-Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 4: 20000 mg/m³

Animal No.	Pre-Mating Period																					Cycles					ML	NC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C ₁	C ₂	C ₃	C ₄	C ₅		
4601	/E	D	D	D	/E	D	D	D	D	/E	E	D	D	D	D	D	D	D	/E	E	D	4	5	9			6.0	3
4602	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	/E	M	D	D	a			4	4	5			4.3	3
4603	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D	/E	M	Ps	4				4.0	1
4604	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	3	5	4	4		4.0	4
4605	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
4606	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	3	5	4	4		4.0	4
4607	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	4	4	4	4		4.0	4
4608	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	3	5	4	4	4.0	5
4609	D	D	D	D	D	D	D	/E	D	D	D	/E	E	E	D	D	D	/E	E	D	D	4	6				5.0	2
4610	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	D	D	D	X					-	-
4611	D	/E	E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	D	P	/E	D	D	5	6	6			5.7	3
4612	/E	E	E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	D	/E	7	4	4	5		5.0	4
4613	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	5	4	4	4		4.3	4
4614	D	D	D	/E	D	D	D	D	D	D	D	/E	E	D	D	D	P	/E	D	D	D	8	6				7.0	2
4615	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	4	4	4	4		4.0	4
4616	D	/E	E	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	4	4	4	4		4.0	4
4617	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
4618	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4619	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
4620	/E	D	D	D	/E	E	D	D	D	/E	D	/E	D	D	/E	M	D	D	/E	M		4	6	2	3	4	3.8	5
4621	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
4622	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	/E	E	D	D	Ps					-	-
4623	D	D	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	M	D	D	P	/E	D	5	5	5			5.0	3
4624	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	4	4	4	4		4.0	4
4625	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4	4	4.0	5
4626	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	D	/E	D	D	D	/E	M	D	4	4	6	4		4.5	4

^aAccidental Death-Not Pregnant

Mean	4.4	3.8
S.D.	0.8	1.0
n	24	24

Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 1: 0 mg/m³

Animal No.	Mating														F	PS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
1601	D	/C													0	P
1602	D	D	/C												0	P
1603	/C														0	P
1604	D	D	D	D	/E	C									0	P
1605	C														0	P
1606	D	/C													0	P
1607	D	/C													0	P
1608	/S														0	P
1609	D	D	D	/C											0	NP
1610	D	D	D	D	D	/C									0	P
1611	D	/C													0	P
1612	D	/C													0	P
1613	D	/C													0	P
1614	D	D	/C												0	P
1615	M	D	D	/C											0	P
1616	D	D	/C												0	P
1617	P	/C													0	P
1618	/E	C													0	P
1619	D	P	/C												0	P
1620	D	/C													0	P
1621	D	D	/E	C											0	P
1622	D	/C													0	P
1623	D	D	/C												0	P
1624	P	/C													0	P
1625	D	D	D	/C											0	NP
1626	D	D	/C												0	P

Females passing ≥ 1 estrus without mating	0
Number of pregnant females	24

Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 2: 2000 mg/m³

Animal No.	Mating														F	PS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
2601	/S														0	P
2602	D	/C													0	P
2603	/E	C													0	P
2604	D	/C													0	P
2605	/S														0	P
2606	/S														0	P
2607	D	D	D	/S											0	P
2608	D	/C													0	P
2609	/C														0	NP
2610	D	D	/C												0	P
2611	/S														0	P
2612	P	/C													0	P
2613	D	/C													0	P
2614	M	D	D	/C											0	P
2615	D	D	/C												0	P
2616	/S														0	P
2617	/E	C													0	P
2618	D	D	/C												0	P
2619	D	D	/C												0	P
2620	/S														0	P
2621	S														0	P
2622	/E	C													0	P
2623	M	D	D	/C											0	P
2624	D	D	/C												0	P
2625	D	D	D	/C											0	P
2626	D	/S													0	P

Females passing ≥ 1 estrus without mating	0
Number of pregnant females	25

Mating	Individual Estrous Cycle and Mating Data	Appendix P
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Group 3: 10000 mg/m³

Animal No.	Mating																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14			F	PS
3601	D	/S															0	P
3602	/C																0	P
3603	D	D	D	/S													0	P
3604	D	D	D	/C													0	P
3605	C																0	NP
3606	D	D	D	/E	C												0	P
3607	/C																0	P
3608	D	/S															0	P
3609	/C																0	P
3610	D	/S															0	P
3611	/C																0	P
3612	D	D	/C														0	P
3613	D	D	D	/C													0	P
3614	C																0	P
3615	D	/S															0	P
3616	D	/S															0	P
3617	D	D	/C														0	P
3618	E	E	E	E	E	E	E	E	E	E	E	E	E	E			0	NP
3619	D	D	/C														0	P
3620	/C																0	P
3621	/E	C															0	P
3622	/C																0	P
3623	/C																0	P
3624	D	/C															0	P
3625	/C																0	P
3626	/C																0	P

Females passing ≥ 1 estrus without mating	0
Number of pregnant females	24

Mating	Individual Estrous Cycle and Mating Data	Appendix P
--------	--	------------

Group 4: 20000
mg/m³

Animal No.	Mating																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14			F	PS
4601	D	D	D	D	D	D	/C										0	P
4602																	0	NP
4603	D	D	/C														0	P
4604	D	D	/C														0	P
4605	/S																0	P
4606	D	D	/C														0	P
4607	/S																0	P
4608	D	D	D	/C													0	P
4609	D	/E	E	C													0	NP
4610	/S																0	P
4611	D	D	/C														0	P
4612	D	D	D	/C													0	P
4613	/E	D	D	D	/C												1	P
4614	D	/C															0	P
4615	D	D	/C														0	P
4616	D	/C															0	P
4617	S																0	NP
4618	D	/S															0	P
4619	D	D	D	/C													0	P
4620	D	/C															0	P
4621	D	/C															0	P
4622	D	/S															0	P
4623	D	D	P	/C													0	P
4624	D	D	/C														0	P
4625	D	D	D	/S													0	P
4626	D	/C															0	P

Females passing ≥ 1 estrus without mating	1
Number of pregnant females	23

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APPENDIX Q

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATING ASSIGNMENTS

GROUP I 0 MG/M3

Female No.	Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Parturition
1601	1101	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1602	1102	+	P	30-OCT-01	2-NOV-01	25-NOV-01
1603	1103	+	P	30-OCT-01	31-OCT-01	22-NOV-01
1604	1104	+	P	30-OCT-01	5-NOV-01	27-NOV-01
1605	1105	+	P	30-OCT-01	31-OCT-01	22-NOV-01
1606	1106	+	DIED	30-OCT-01	1-NOV-01	23-NOV-01
1607	1107	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1608	1108	+	P	30-OCT-01	31-OCT-01	22-NOV-01
1609	1109	+	NP	30-OCT-01	3-NOV-01	
1610	1110	+	P	30-OCT-01	5-NOV-01	27-NOV-01
1611	1111	+	TLL	30-OCT-01	1-NOV-01	24-NOV-01
1612	1112	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1613	1113	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1614	1114	+	P	30-OCT-01	2-NOV-01	23-NOV-01
1615	1115	+	P	30-OCT-01	3-NOV-01	25-NOV-01
1616	1116	+	P	30-OCT-01	2-NOV-01	24-NOV-01
1617	1117	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1618	1118	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1619	1119	+	P	30-OCT-01	2-NOV-01	24-NOV-01
1620	1120	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1621	1121	+	P	30-OCT-01	3-NOV-01	25-NOV-01
1622	1122	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1623	1123	+	P	30-OCT-01	2-NOV-01	25-NOV-01
1624	1124	+	P	30-OCT-01	1-NOV-01	23-NOV-01
1625	1125	+	NP	30-OCT-01	3-NOV-01	
1626	1126	+	P	30-OCT-01	2-NOV-01	24-NOV-01

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

DIED=FOUND DEAD NP=NOT PREGNANT TLL=TOTAL LITTER LOSS P=PREGNANT

26-MAR-2002 10:53

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APPENDIX Q

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATING ASSIGNMENTS

GROUP II 2000 MG/M3

Female No.	Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Parturition
2601	2101	+	P	30-OCT-01	31-OCT-01	22-NOV-01
2602	2102	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2603	2103	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2604	2104	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2605	2105	+	P	30-OCT-01	31-OCT-01	22-NOV-01
2606	2106	+	P	30-OCT-01	31-OCT-01	21-NOV-01
2607	2107	+	P	30-OCT-01	3-NOV-01	25-NOV-01
2608	2108	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2609	2109	+	NP	30-OCT-01	31-OCT-01	
2610	2110	+	P	30-OCT-01	2-NOV-01	24-NOV-01
2611	2111	+	P	30-OCT-01	31-OCT-01	22-NOV-01
2612	2112	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2613	2113	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2614	2114	+	P	30-OCT-01	3-NOV-01	25-NOV-01
2615	2115	+	P	30-OCT-01	2-NOV-01	24-NOV-01
2616	2116	+	P	30-OCT-01	31-OCT-01	21-NOV-01
2617	2117	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2618	2118	+	P	30-OCT-01	2-NOV-01	23-NOV-01
2619	2119	+	P	30-OCT-01	2-NOV-01	24-NOV-01
2620	2120	+	P	30-OCT-01	31-OCT-01	22-NOV-01
2621	2121	+	P	30-OCT-01	31-OCT-01	22-NOV-01
2622	2122	+	P	30-OCT-01	1-NOV-01	23-NOV-01
2623	2123	+	P	30-OCT-01	3-NOV-01	25-NOV-01
2624	2124	+	P	30-OCT-01	2-NOV-01	24-NOV-01
2625	2125	+	P	30-OCT-01	3-NOV-01	25-NOV-01
2626	2126	+	P	30-OCT-01	1-NOV-01	23-NOV-01

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NP=NOT PREGNANT P=PREGNANT

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APPENDIX Q

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATING ASSIGNMENTS

GROUP III 10000 MG/M3

Female No.	Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Parturition
3601	3101	+	P	30-OCT-01	1-NOV-01	23-NOV-01
3602	3102	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3603	3103	+	P	30-OCT-01	3-NOV-01	25-NOV-01
3604	3104	+	P	30-OCT-01	3-NOV-01	24-NOV-01
3605	3105	+	NP	30-OCT-01	31-OCT-01	
3606	3106	+	P	30-OCT-01	4-NOV-01	26-NOV-01
3607	3107	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3608	3108	+	P	30-OCT-01	1-NOV-01	22-NOV-01
3609	3109	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3610	3110	+	P	30-OCT-01	1-NOV-01	23-NOV-01
3611	3111	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3612	3112	+	P	30-OCT-01	2-NOV-01	24-NOV-01
3613	3113	+	P	30-OCT-01	3-NOV-01	24-NOV-01
3614	3114	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3615	3115	+	P	30-OCT-01	1-NOV-01	22-NOV-01
3616	3116	+	P	30-OCT-01	1-NOV-01	23-NOV-01
3617	3117	+	P	30-OCT-01	2-NOV-01	23-NOV-01
3618	3118	-	NP	30-OCT-01		
3619	3119	+	P	30-OCT-01	2-NOV-01	24-NOV-01
3620	3120	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3621	3121	+	P	30-OCT-01	1-NOV-01	23-NOV-01
3622	3122	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3623	3123	+	P	30-OCT-01	31-OCT-01	23-NOV-01
3624	3124	+	P	30-OCT-01	1-NOV-01	23-NOV-01
3625	3125	+	P	30-OCT-01	31-OCT-01	22-NOV-01
3626	3126	+	P	30-OCT-01	31-OCT-01	22-NOV-01

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NP=NOT PREGNANT

P=PREGNANT

APPENDIX Q

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL MATING ASSIGNMENTS

GROUP IV 20000 MG/M3

Female No.	Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Parturition
4601	4101	+	P	30-OCT-01	6-NOV-01	29-NOV-01
4602		N	NPAD			
4603	4103	+	P	30-OCT-01	2-NOV-01	24-NOV-01
4604	4104	+	P	30-OCT-01	2-NOV-01	23-NOV-01
4605	4105	+	P	30-OCT-01	31-OCT-01	22-NOV-01
4606	4106	+	P	30-OCT-01	2-NOV-01	24-NOV-01
4607	4107	+	P	30-OCT-01	31-OCT-01	23-NOV-01
4608	4108	+	P	30-OCT-01	3-NOV-01	25-NOV-01
4609	4109	+	NP	30-OCT-01	3-NOV-01	
4610	4110	+	P	30-OCT-01	31-OCT-01	22-NOV-01
4611	4111	+	P	30-OCT-01	2-NOV-01	24-NOV-01
4612	4112	+	P	30-OCT-01	3-NOV-01	25-NOV-01
4613	4113	+	P	30-OCT-01	4-NOV-01	26-NOV-01
4614	4114	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4615	4115	+	P	30-OCT-01	2-NOV-01	23-NOV-01
4616	4116	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4617	4117	+	NP	30-OCT-01	31-OCT-01	
4618	4118	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4619	4119	+	P	30-OCT-01	3-NOV-01	24-NOV-01
4620	4120	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4621	4121	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4622	4122	+	P	30-OCT-01	1-NOV-01	23-NOV-01
4623	4123	+	P	30-OCT-01	3-NOV-01	25-NOV-01
4624	4124	+	P	30-OCT-01	2-NOV-01	24-NOV-01
4625	4125	+	P	30-OCT-01	3-NOV-01	25-NOV-01
4626	4126	+	P	30-OCT-01	1-NOV-01	23-NOV-01

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG P=PREGNANT

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APPENDIX R

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP I 0 MG/M3

FEMALE#	LITTER DELIVERED			NUMBER OF LIVE PUPS												TOTAL IMPLAN- TATIONS N	DURATION OF GESTATION (DAYS) N	
	LIVE N	DEAD N	TOTAL N	DAYS														
				1		4		7		14		21		28				
				M	F	M	F	M	F	M	F	M	F	M	F			
1601		18	0	18	8	10	8	9	6	4	6	4	6	4	6	4	16	22
1602		13	0	13	8	4	8	4	6	4	6	4	6	4	6	4	15	23
1603		13	0	13	9	4	9	4	6	4	6	4	6	4	6	4	13	22
1604		16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	17	22
1605		15	0	15	14	1	14	1	9	1	9	1	9	1	9	1	15	22
1606x DPP		14	1	15	10	4	0	0	0	0	0	0	0	0	0	0	15	22
1607		16	0	16	6	10	6	10	5	5	5	5	5	5	5	5	16	22
1608		15	0	15	8	7	8	7	6	4	6	4	6	4	6	4	16	22
1609x NP																		
1610		14	0	14	4	10	4	10	4	6	4	6	4	6	4	6	15	22
1611 TLL		1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	3	23
1612		13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	14	22
1613		19	0	19	5	13	5	13	5	5	5	5	5	5	5	5	19	22
1614		17	0	17	10	7	10	7	5	5	5	5	5	5	5	5	17	21
1615		12	0	12	5	7	5	7	5	5	5	5	5	5	5	5	13	22
1616		13	0	13	6	7	6	7	5	5	5	5	5	5	5	5	15	22
1617		15	0	15	7	8	5	7	5	5	5	5	5	5	5	5	19	22
1618		14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	16	22
1619		14	0	14	7	7	7	7	5	5	5	5	5	5	5	5	14	22
1620		16	0	16	6	10	6	10	3	6	3	6	3	6	3	6	15	22
1621		17	0	17	10	7	10	7	5	5	5	5	5	5	5	5	17	22
1622		12	0	12	6	5	6	5	5	5	5	5	5	5	5	5	13	22
1623		11	0	11	4	7	4	7	4	6	4	6	4	6	4	6	13	23
1624		14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	14	22
1625x NP																		
1626		13	0	13	2	11	2	11	2	8	2	8	2	8	2	8	14	22
MEAN		14.0	0.0	14.0	6.7	7.2	6.8	7.4	5.0	4.9	5.0	4.9	5.0	4.9	5.0	4.9	14.7	22.1
S.D.		3.5	0.2	3.3	2.9	3.1	2.7	2.6	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.2	3.1	0.4
N		23	23	23	23	23	22	22	22	22	22	22	22	22	22	22	23	23

NP=NOT PREGNANT

DPP=DIED POST PARTUM

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

APPENDIX R

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP II 2000 MG/M3

LITTER DELIVERED				NUMBER OF LIVE PUPS												TOTAL IMPLAN- TATIONS N	DURATION OF GESTATION (DAYS) N
FEMALE#	LIVE N	DEAD N	TOTAL N	DAYS													
				1		4		7		14		21		28			
				M	F	M	F	M	F	M	F	M	F	M	F		
2601	10	0	10	7	3	7	3	7	3	7	3	7	3	7	3	17	22
2602	15	0	15	7	7	7	7	5	5	5	5	5	5	5	5	17	22
2603	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	16	22
2604	17	0	17	6	11	6	7	5	5	5	4	5	4	4	4	17	22
2605	13	0	13	6	7	6	7	5	5	5	5	5	5	5	5	14	22
2606	14	0	14	7	7	7	7	5	5	5	5	5	5	5	5	15	21
2607	16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	18	22
2608	16	0	16	8	8	8	8	5	5	5	5	5	5	5	5	17	22
2609x NP																	
2610	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	14	22
2611	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	16	22
2612	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	14	22
2613	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	15	22
2614	14	0	14	9	5	9	5	5	5	5	5	5	5	5	5	16	22
2615	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	15	22
2616	15	0	15	8	7	8	7	5	5	5	5	5	5	5	5	17	21
2617	15	1	16	5	10	5	10	5	5	5	5	4	5	4	5	16	22
2618	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	13	21
2619	17	0	17	10	7	10	7	5	5	5	5	5	5	5	5	20	22
2620	10	0	10	4	6	4	6	4	6	4	6	4	6	4	6	15	22
2621	13	0	13	3	10	3	10	3	7	3	7	3	7	3	7	15	22
2622	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	13	22
2623	15	0	15	8	7	8	7	5	5	5	5	5	5	5	5	16	22
2624	18	0	18	10	8	10	8	5	5	5	5	5	5	5	5	18	22
2625	19	0	19	8	9	8	9	5	5	5	5	5	5	5	5	19	22
2626	13	0	13	4	8	4	8	4	6	4	6	4	6	4	6	15	22
MEAN	14.4	0.0	14.4	6.9	7.4	6.9	7.2	4.9	5.1	4.9	5.0	4.9	5.0	4.8	5.0	15.9	21.9
S.D.	2.1	0.2	2.2	1.9	1.9	1.9	1.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	1.8	0.3
N	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

APPENDIX R

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP III 10000 MG/M3

FEMALE#	LITTER DELIVERED			NUMBER OF LIVE PUPS												TOTAL IMPLAN- TATIONS N	DURATION OF GESTATION (DAYS) N
	LIVE N	DEAD N	TOTAL N	DAYS													
				1		4		7		14		21		28			
				M	F	M	F	M	F	M	F	M	F	M	F		
3601		14	0	14	9	5	9	5	5	5	5	5	5	5	5	15	22
3602		13	0	13	10	3	9	3	7	3	7	3	7	3	7	17	22
3603		15	0	15	4	10	4	10	4	6	4	6	4	6	4	15	22
3604		14	0	14	7	7	7	7	5	5	5	5	5	5	5	15	21
3605x	NP																
3606		13	0	13	4	9	4	9	4	6	4	6	3	6	3	15	22
3607		14	0	14	4	10	4	10	4	6	4	6	4	6	4	17	22
3608		18	1	19	11	7	11	7	5	5	5	5	5	5	5	20	21
3609		9	0	9	8	1	8	1	8	1	8	1	8	1	8	10	22
3610		12	0	12	6	6	6	6	5	5	5	5	5	5	5	16	22
3611		10	0	10	6	4	6	4	6	4	6	4	6	4	6	14	22
3612		12	1	13	8	4	8	4	6	4	6	4	6	4	6	14	22
3613		14	0	14	7	7	7	6	5	5	5	5	5	5	5	16	21
3614		14	0	14	8	6	8	6	5	5	5	5	5	5	5	17	22
3615		13	1	14	4	9	4	9	4	6	4	6	4	6	4	18	21
3616		19	0	19	7	12	7	12	5	5	5	5	5	5	5	19	22
3617		14	0	14	4	10	4	10	4	6	4	6	4	6	4	15	21
3618x	NP																
3619		17	1	18	8	8	8	8	5	5	5	5	5	5	5	18	22
3620		13	0	13	8	5	8	5	5	5	5	5	5	5	5	15	22
3621		17	0	17	9	8	9	8	5	5	5	5	5	5	5	17	22
3622		10	0	10	5	5	5	5	5	5	5	5	5	5	5	17	22
3623		9	0	9	4	5	4	5	4	5	4	5	4	5	4	13	23
3624		13	0	13	5	8	5	8	5	5	5	5	5	5	5	13	22
3625		8	0	8	3	5	3	4	3	4	3	4	3	4	3	14	22
3626		10	0	10	5	5	5	5	5	5	5	5	5	5	5	14	22
MEAN		13.1	0.2	13.3	6.4	6.6	6.4	6.5	5.0	4.8	5.0	4.8	4.9	4.8	4.9	15.6	21.8
S.D.		2.9	0.4	3.0	2.2	2.6	2.2	2.6	1.0	1.1	1.0	1.1	1.1	1.1	1.1	2.2	0.5
N		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

NP=NOT PREGNANT

x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

APPENDIX R

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP IV 20000 MG/M3

FEMALE#	LITTER DELIVERED			NUMBER OF LIVE PUPS												TOTAL IMPLAN- TATIONS N	DURATION OF GESTATION (DAYS) N
	LIVE N	DEAD N	TOTAL N	DAYS													
				1		4		7		14		21		28			
				M	F	M	F	M	F	M	F	M	F	M	F		
4601	6	0	6	2	3	2	3	2	3	2	3	2	3	2	3	6	23
4602xNPAD																	
4603	15	0	15	9	5	9	5	5	5	5	5	5	5	5	5	16	22
4604	16	0	16	9	7	9	6	5	5	5	5	5	5	5	5	16	21
4605	18	0	18	5	13	4	13	4	6	4	6	4	6	4	6	18	22
4606	14	0	14	7	7	7	7	5	5	5	5	5	5	5	5	16	22
4607	7	0	7	2	5	2	5	2	5	2	5	2	5	2	5	17	23
4608	15	0	15	5	9	5	9	5	5	5	5	5	5	5	5	15	22
4609x NP																	
4610	16	0	16	7	9	7	9	5	5	5	5	5	5	5	5	16	22
4611	13	0	13	11	2	11	2	8	2	8	2	8	2	8	2	14	22
4612	16	0	16	8	8	8	8	5	5	5	5	5	5	5	5	18	22
4613	16	0	16	11	5	11	5	5	5	5	5	5	5	5	5	16	22
4614	17	0	17	10	7	10	6	5	5	5	5	5	5	5	5	17	22
4615	17	0	17	10	7	10	7	5	5	4	5	4	5	4	5	17	21
4616	12	0	12	6	6	6	6	5	5	5	5	5	5	5	5	15	22
4617x NP																	
4618	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	14	22
4619	12	0	12	5	4	5	3	5	3	5	3	5	3	5	3	14	21
4620	15	0	15	10	5	10	5	5	5	5	5	5	5	5	5	19	22
4621	16	0	16	8	8	8	8	5	5	5	5	5	5	5	5	17	22
4622	16	0	16	8	8	8	8	5	5	5	5	5	5	5	5	16	22
4623	15	0	15	3	11	3	11	3	7	3	7	3	7	3	7	15	22
4624	17	0	17	9	8	9	8	5	5	5	5	5	5	5	5	17	22
4625	7	1	8	4	3	4	3	4	3	4	3	4	3	4	3	18	22
4626	17	0	17	7	10	7	10	5	5	5	5	5	5	5	5	17	22
MEAN	14.2	0.0	14.3	7.0	6.9	7.0	6.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	15.8	22.0
S.D.	3.4	0.2	3.3	2.7	2.7	2.8	2.8	1.2	1.1	1.2	1.1	1.2	1.1	1.2	1.1	2.5	0.5
N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

26-MAR-2002 11:00

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

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APPENDIX S

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP SEX AND STATUS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	PUP #																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1601	MK28	MC 4	MK28	MK28	MK28	MK28	MC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FD 4	MK28	FC 4					
1602	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MK28	MM 1	FK28	FK28	FK28	FK28										
1603	MK28	MC 4	MC 4	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28										
1604	MC 4	MC 4	MC 4	MK28	MK28	MC 4	MK28	MC 4	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FK28				
1605	MK28	MC 4	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	MC 4	MK28	MK28	MC 4	MK28	FK28								
1606	FS	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	MU 1	FU 1	FU 1	FU 1	FU 1							
1607	MK28	MK28	MC 4	MK28	MK28	MK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4							
1608	MK28	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4							
1610	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FC 4	FK28	FC 4	FC 4									
1611	MS	MM 2																					
1612	MC 4	MK28	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FC 4	FK28	FK28	FK28										
1613	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FC 4	FC 4	FC 4	FC 4	FC 4	FC 4	FC 4	FK28	FC 4	FK28	FK28	FK28	FM 1			
1614	MC 4	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	MC 4	MK28	FK28	FK28	FK28	FC 4	FK28	FK28	FC 4						
1615	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FC 4											
1616	MK28	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28										
1617	MK28	MK28	MK28	MM 2	MK28	MK28	MM 2	FK28	FK28	FK28	FD 2	FC 4	FK28	FK28	FC 4								
1618	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FC 4									
1619	MK28	MK28	MK28	MC 4	MK28	MC 4	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28									
1620	MC 4	MK28	MK28	MM 5	MC 4	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4							
1621	MK28	MC 4	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28			
1622	MK28	MK28	MK28	MK28	MK28	MM 1	MC 4	FK28	FK28	FK28	FK28	FK28											
1623	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4												
1624	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4	FK28									
1626	MK28	MK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4	FK28	FK28	FK28										

SEX CODE PRECEDES PUP STATUS CODE. NUMERICAL VALUE INDICATES DAY OF LACTATION.

SEX CODES: M-MALE F-FEMALE U-UNCERTAIN

PUP STATUS CODES: A-ALIVE S-STILLBORN D-DIED C-CULLED M-MISSING K-SCHEDULED SACRIFICE U-UNSCHEDULED SACRIFICE

APPENDIX S

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP SEX AND STATUS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	PUP #																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
2601	MK28	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28													
2602	MK28	MC 4	MZ 1	MK28	MK28	MK28	MK28	MC 4	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4								
2603	MK28	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FK28	FC 4	FC 4	FC 4	FK28	FK28	FC 4								
2604	MZ23	MK28	MK28	MK28	MC 4	MK28	FC 4	FC 4	FK28	FK28	FM 4	PD 8	FM 3	FK28	FK28	FD 4	FM 4						
2605	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28	FC 4										
2606	MK28	MK28	MC 4	MC 4	MK28	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28									
2607	MC 4	MK28	MK28	MC 4	MK28	MK28	MC 4	MC 4	MC 4	MK28	FK28	FK28	FK28	FC 4	FK28	FK28							
2608	MK28	MK28	MC 4	MK28	MC 4	MK28	MC 4	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28						
2610	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FK28	FK28	FC 4	FK28	FC 4	FK28	FK28									
2611	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28											
2612	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28										
2613	MK28	MK28	MK28	MK28	MC 4	MK28	FC 4	FC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28								
2614	MK28	MK28	MC 4	MC 4	MK28	MC 4	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28									
2615	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4									
2616	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4								
2617	MS	MK28	MK28	MK28	MD15	MK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FK28	FC 4	FC 4	FC 4							
2618	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28										
2619	MC 4	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28						
2620	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28													
2621	MK28	MK28	MK28	FK28	FC 4	FK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28										
2622	MK28	MK28	MC 4	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28										
2623	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	FK28	FC 4	FK28	FC 4	FK28	FK28	FK28								
2624	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FC 4	FK28	FK28	FK28					
2625	MK28	MK28	MC 4	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FC 4	FD 1	FC 4	FC 4	FK28	FC 4	FK28	FK28	FZ 0				
2626	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FD 1	FC 4	FK28										

SEX CODE PRECEDES PUP STATUS CODE. NUMERICAL VALUE INDICATES DAY OF LACTATION.

SEX CODES: M-MALE F-FEMALE U-UNCERTAIN

PUP STATUS CODES: A-ALIVE S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING K-SCHEDULED SACRIFICE

26-MAR-2002 11:00

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP SEX AND STATUS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	PUP #																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
3601	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28	FK28									
3602	MK28	MK28	MK28	MK28	MD 3	MC 4	MK28	MK28	FK28	MC 4	FK28	MK28	FK28										
3603	FD 0	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4	FK28	FK28								
3604	MK28	MK28	MC 4	MK28	MK28	MC 4	MK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28						
3606	MK28	MD15	MK28	MK28	FC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28										
3607	MK28	MK28	FK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28									
3608	US	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	MC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FK28				
3609	MK28	MK28	MK28	MK28	MK28	MK28	MK28	MK28	FK28														
3610	MK28	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FK28										
3611	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28													
3612	MS	MK28	MK28	MC 4	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28										
3613	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28	FD 2	FC 4	FK28								
3614	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28	FC 4									
3615	MD 0	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4									
3616	MK28	MK28	MK28	MC 4	MC 4	MK28	MK28	FC 4	FK28	FC 4	FK28	FC 4	FC 4	FC 4	FK28	FK28	FC 4	FK28	FC 4				
3617	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FC 4	FK28	FK28	FC 4									
3619	FD 0	MK28	MK28	MK28	MC 4	MC 4	MK28	MC 4	MK28	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FS					
3620	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28										
3621	MC 4	MK28	MC 4	MC 4	MK28	MC 4	MK28	MK28	FK28	MK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FC 4						
3622	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28													
3623	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28														
3624	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4										
3625	MK28	MK28	MK28	FK28	FM 2	FK28	FK28	FK28															
3626	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28												

SEX CODE PRECEDES PUP STATUS CODE. NUMERICAL VALUE INDICATES DAY OF LACTATION.

SEX CODES: M-MALE F-FEMALE U-UNCERTAIN

PUP STATUS CODES: A-ALIVE S-STILLBORN D-DIED C-CULLED M-MISSING K-SCHEDULED SACRIFICE

APPENDIX S

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP SEX AND STATUS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#	PUP #																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
4601	FD 0	MK28	MK28	FK28	FK28	FK28																	
4603	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	MM 1	MK28	FK28	FK28	FK28	FK28	FK28								
4604	MK28	MC 4	MK28	MK28	MK28	MC 4	MC 4	MK28	MC 4	FK28	FK28	FC 4	FK28	FK28	FK28	FM 2							
4605	MK28	MM 4	MK28	MK28	MK28	FC 4	FC 4	FK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4					
4606	MK28	MK28	MC 4	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FK28									
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4611	MK28	MK28	MK28	MK28	MK28	MC 4	MK28	MK28	MC 4	MC 4	FK28	FK28											
4612	MK28	MC 4	MK28	MK28	MK28	MC 4	MC 4	MK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FK28							
4613	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28							
4614	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	FK28	FD 2	FK28	FK28	FK28	FC 4	FK28						
4615	MC 4	MK28	MC 4	MC 4	MK28	MK28	MK28	MD 8	MC 4	MC 4	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4						
4616	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28												
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4621	MC 4	MC 4	MK28	MC 4	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FC 4	FC 4	FK28	FK28								
4622	MC 4	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4								
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4624	MK28	MC 4	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4						
4625	FS	MK28	MK28	MK28	MK28	FK28	FK28	FK28															
4626	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	FC 4	FC 4	FC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28						

SEX CODE PRECEDES PUP STATUS CODE. NUMERICAL VALUE INDICATES DAY OF LACTATION.

SEX CODES: M-MALE F-FEMALE U-UNCERTAIN

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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

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INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GROUP II 2000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

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	PUP# 14	WITHIN NORMAL LIMITS	P				P																								
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P								P					P
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	PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P								P					P
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

Huntingdon Life Sciences 00-4202
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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

Huntingdon Life Sciences 00-4202
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APPENDIX T

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

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APPENDIX T

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

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INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																											
			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	6	7
3626	PUP# 2	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 6	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 5	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 10	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 8	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 9	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 4	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 3	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 1	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P
	PUP# 7	WITHIN NORMAL LIMITS	P				P		P		P							P									P			P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#			OBSERVATIONS				DAY OF LACTATION																	1 1																
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#			OBSERVATIONS		DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2																											
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4606	PUP# 14	WITHIN	NORMAL	LIMITS						P																						P	
	PUP# 3	WITHIN	NORMAL	LIMITS					P																								
	PUP# 13	WITHIN	NORMAL	LIMITS					P																								
	PUP# 6	WITHIN	NORMAL	LIMITS					P																								
	PUP# 1	WITHIN	NORMAL	LIMITS					P																							P	
	PUP# 2	WITHIN	NORMAL	LIMITS					P																							P	
	PUP# 9	WITHIN	NORMAL	LIMITS					P																							P	
4607	PUP# 2	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 6	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 5	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 1	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 3	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 4	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 7	WITHIN	NORMAL	LIMITS				P																								P	
4608	PUP# 11	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 13	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 4	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 14	WITHIN	NORMAL	LIMITS				P																								P	
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	PUP# 3	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 5	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 12	WITHIN	NORMAL	LIMITS				P																									
	PUP# 15	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 2	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 9	WITHIN	NORMAL	LIMITS				P																								P	
	PUP# 8	WITHIN	NORMAL	LIMITS				P																									
	PUP# 10	WITHIN	NORMAL	LIMITS				P																									
	PUP# 6	WITHIN	NORMAL	LIMITS				P																								P	
PUP# 1	FOUND	DEAD				P																											
CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT																																	

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#		OBSERVATIONS	DAY OF LACTATION																	1 1																
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#			OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																											
					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	6	7
4615	PUP#	9	WITHIN NORMAL LIMITS		P				P																							
	PUP#	1	WITHIN NORMAL LIMITS		P				P																							
4616	PUP#	1	WITHIN NORMAL LIMITS		P				P																							
	PUP#	12	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	6	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	2	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	7	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	11	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	5	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	9	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	3	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	10	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	8	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	4	WITHIN NORMAL LIMITS		P				P																							P
4618	PUP#	14	WITHIN NORMAL LIMITS		P				P																							
	PUP#	3	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	9	WITHIN NORMAL LIMITS		P				P																							P
	PUP#	10	WITHIN NORMAL LIMITS		P				P																							P
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	PUP#	13	WITHIN NORMAL LIMITS		P				P																							
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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

FEMALE#				OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2																									
						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
4619	PUP#	4	WITHIN	NORMAL	LIMITS	P				P								P													P
	PUP#	12	WITHIN	NORMAL	LIMITS	P																									
	PUP#	8	WITHIN	NORMAL	LIMITS	P				P								P										P			P
	PUP#	6	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	7	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	5	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	10	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	11	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	9	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	1	FOUND	DEAD		P																									
PUP#	2	FOUND	DEAD		P																										
4620	PUP#	10	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	12	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	14	WITHIN	NORMAL	LIMITS	P				P								P								P					P
	PUP#	1	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	6	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	13	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	3	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	11	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	2	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	5	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	7	WITHIN	NORMAL	LIMITS	P				P																		P			P
	PUP#	9	WITHIN	NORMAL	LIMITS	P				P									P								P				P
	PUP#	15	WITHIN	NORMAL	LIMITS	P				P									P								P				P
	PUP#	4	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	8	WITHIN	NORMAL	LIMITS	P				P									P								P				P
4621	PUP#	15	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	9	WITHIN	NORMAL	LIMITS	P				P																					
	PUP#	8	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	12	WITHIN	NORMAL	LIMITS	P				P								P									P				P
	PUP#	11	WITHIN	NORMAL	LIMITS	P				P								P									P				P

CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

APPENDIX T

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP IV 20000 MG/M3

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CODE: 1-SLIGHT 2-MODERATE 3-MARKED P-PRESENT

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APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																	LACTATION DAY 1	
0 MG/M3																				
FEMALE#	MEAN	PUP#																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1601	7.1	7.8	7.2	7.7	7.1	8.2	7.4	7.7	6.9	7.3	7.1	6.4	6.7	7.1	6.7	7.4	6.4	6.6	7.0	
1602	8.1	8.6	8.5	7.9	8.7	8.2	7.6	8.2	8.8	M	7.1	7.6	8.0	8.2						
1603	8.5	9.0	8.7	9.1	8.8	8.1	8.7	9.5	8.5	8.9	7.6	7.5	7.7	8.0						
1604	7.2	8.1	7.4	7.3	6.8	7.0	7.0	7.5	6.7	7.6	7.8	7.4	7.1	7.5	7.4	5.3	6.7			
1605	7.3	7.6	7.5	7.1	7.4	7.4	7.7	7.4	6.1	7.3	8.5	7.1	7.4	7.0	6.6	7.2				
1606	FOUND DEAD																			
1607	7.0	7.3	7.4	8.1	7.6	7.1	6.5	6.7	6.7	6.7	6.5	7.3	6.6	7.2	6.6	6.2	6.9			
1608	7.7	7.4	8.1	10.8	7.4	8.1	8.0	7.7	7.1	7.4	7.2	7.1	7.8	7.9	7.0	7.1				
1609	NOT PREGNANT																			
1610	7.2	8.1	8.2	7.5	6.8	6.5	7.2	7.1	7.2	7.2	7.0	7.2	7.1	6.9	7.1					
1611	6.9	S	6.9																	
1612	6.8	5.8	7.0	7.0	7.3	7.6	6.7	7.0	6.1	6.8	7.0	6.1	6.8	7.0						
1613	6.9	6.9	6.9	6.3	7.7	7.3	7.0	6.3	7.2	6.9	6.5	7.4	6.4	7.2	6.5	6.2	6.8	7.6	6.5	M
1614	6.7	6.5	6.7	6.6	6.6	6.2	6.2	7.1	7.0	6.5	8.1	6.9	6.8	6.4	6.4	6.2	6.4	7.2		
1615	7.2	7.2	7.7	7.0	7.5	7.6	7.1	7.5	6.3	7.2	7.7	6.8	6.8							
1616	8.0	8.6	7.9	8.1	8.9	7.8	7.7	7.8	7.5	7.6	7.7	7.6	8.4	8.0						
1617	6.8	7.8	6.8	7.1	6.5	7.6	6.7	3.5	6.9	6.8	7.6	7.3	7.7	6.0	7.4	5.9				
1618	6.8	6.8	7.2	7.4	7.1	7.5	7.1	5.3	7.2	6.1	6.6	6.2	6.8	6.8	6.7					
1619	7.2	8.0	7.5	7.4	7.7	7.3	6.7	7.2	5.7	6.8	7.5	6.7	7.3	7.1	7.2					
1620	6.7	7.0	7.4	6.2	6.2	7.0	6.8	6.9	6.7	6.2	6.8	7.3	6.4	6.6	6.7	6.7	6.8			
1621	6.6	7.2	6.4	6.8	5.4	7.5	6.4	7.6	7.0	7.0	7.1	6.2	6.4	6.8	7.3	4.9	6.1	6.6		
1622	7.3	7.5	7.4	8.0	7.3	7.6	M	7.4	7.0	6.9	6.8	7.1	6.9							
1623	8.2	8.5	8.8	8.5	4.6	9.4	8.2	7.9	8.2	8.5	8.6	8.5								
1624	7.2	7.7	7.6	7.6	7.5	7.2	7.3	6.8	7.1	7.4	6.9	7.7	6.6	7.1	6.2					
1625	NOT PREGNANT																			
1626	7.3	8.0	6.9	7.6	7.0	7.1	7.0	7.3	7.5	7.4	7.6	6.8	7.6	7.1						
MEAN	7.2																			
S.D.	0.52																			
N	23																			

PUP STATUS CODES: S-STILLBORN M-MISSING

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APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		2000 MG/M3										INDIVIDUAL PUP BODY WEIGHTS (GRAMS)										LACTATION DAY 1								
FEMALE#	MEAN	PUP#										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		1	2	3	4	5	6	7	8	9	10																			
2601	7.9	7.9	7.2	8.1	8.6	7.9	8.1	8.1	7.9	7.6	7.2																			
2602	7.4	7.5	7.4	Z	8.5	7.5	7.2	6.9	7.9	7.9	7.3	7.3	7.4	7.4	6.6	6.5														
2603	7.2	7.3	7.2	6.9	6.6	7.4	9.6	7.0	7.0	6.7	6.9	6.9	7.2	7.5	6.9	6.9														
2604	6.5	7.1	6.6	6.9	7.3	6.5	7.3	6.9	7.4	6.7	6.8	5.3	7.2	4.8	6.3	6.7	4.5	6.5												
2605	7.3	7.7	7.7	7.5	7.6	7.5	7.3	6.9	7.1	7.4	7.5	7.1	7.4	6.4																
2606	6.8	6.9	7.3	7.3	6.9	7.1	6.6	7.0	5.9	7.0	6.4	6.4	6.7	6.3	6.7															
2607	7.5	8.6	7.7	7.5	7.5	7.6	8.3	7.2	7.6	7.4	7.5	7.3	8.0	7.0	7.5	7.2	6.5													
2608	7.3	7.7	7.9	7.5	7.5	7.6	7.5	7.8	7.4	7.2	6.8	6.7	7.0	6.9	7.0	7.2	7.4													
2609	NOT PREGNANT																													
2610	6.1	6.7	6.8	6.0	6.1	5.9	6.0	5.5	6.3	5.9	6.1	6.2	6.1	6.2	5.7															
2611	7.3	7.6	7.7	7.7	7.7	7.3	7.8	7.3	6.5	7.3	7.2	6.8	7.0																	
2612	7.5	8.0	7.5	7.7	8.2	7.6	6.5	7.5	8.1	7.8	7.4	7.0	7.0	6.7																
2613	7.3	7.5	8.5	6.3	7.6	6.9	8.0	6.7	7.2	7.3	6.5	7.4	7.1	7.9	7.4	7.1														
2614	7.1	7.5	7.3	7.2	6.9	7.6	7.4	6.8	7.0	7.2	7.1	7.0	7.0	6.5	6.5															
2615	7.2	7.8	7.6	7.2	7.8	7.5	7.4	7.7	6.6	6.8	6.7	6.8	7.0	7.1	6.7															
2616	6.5	6.9	6.6	6.6	6.6	6.8	6.1	5.7	7.2	6.4	6.0	6.4	6.7	6.6	6.6	6.2														
2617	6.4	S	7.3	6.7	7.1	6.7	6.7	5.6	6.0	6.2	6.8	6.0	5.5	6.0	6.5	6.8	6.2													
2618	6.8	6.9	6.8	6.8	7.2	6.6	6.8	6.9	7.2	6.5	6.8	6.6	6.4	6.6	6.8															
2619	7.3	7.8	7.6	7.8	5.6	7.0	7.5	7.4	8.1	7.8	7.3	8.0	7.5	7.3	6.9	6.7	7.5	6.8												
2620	7.3	7.4	7.4	7.6	7.1	7.2	6.9	7.0	7.6	7.4	7.5																			
2621	6.9	7.2	7.2	7.2	6.8	6.6	7.6	7.3	6.8	6.5	7.4	6.2	6.5	6.6																
2622	7.8	7.8	7.7	8.4	7.8	8.2	8.1	7.5	7.6	7.4	7.8	7.2	8.0	7.3																
2623	6.8	7.0	6.3	7.0	7.2	7.1	6.3	8.1	6.9	6.9	6.3	6.2	6.8	6.4	6.3	7.0														
2624	6.8	7.0	7.2	6.7	6.8	6.6	7.0	7.0	6.9	6.1	6.9	6.9	7.0	6.7	5.7	7.0	6.2	7.2	6.7											
2625	6.7	6.6	5.9	7.8	7.3	6.7	7.3	7.8	6.7	7.3	5.8	5.9	D	7.1	6.5	6.1	7.2	6.6	5.7	Z										
2626	7.8	8.3	8.0	8.0	7.8	8.0	7.4	8.0	7.4	7.7	7.6	D	7.4	7.8																
MEAN	7.1																													
S.D.	0.45																													
N	25																													

PUP STATUS CODES: S-STILLBORN D-DIED Z-CANNIBALIZED

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APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3														INDIVIDUAL PUP BODY WEIGHTS (GRAMS)					LACTATION DAY 1				
FEMALE#	MEAN	PUP#																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
3601	7.2	6.6	6.8	7.9	7.7	7.3	7.0	6.8	7.4	6.9	8.1	6.9	6.9	7.3	6.5										
3602	7.5	7.5	8.2	6.8	7.2	7.8	7.9	8.1	7.9	7.5	6.4	6.7	7.4	7.6											
3603	6.9	D	6.8	6.9	7.6	6.8	6.9	7.4	6.8	7.0	6.9	5.7	6.8	6.5	7.0	6.9									
3604	6.6	7.0	6.8	6.6	7.2	6.6	7.1	6.8	6.4	6.9	6.6	6.1	6.0	6.6	6.2										
3605	NOT PREGNANT																								
3606	6.5	7.3	6.9	6.7	6.4	6.8	6.2	6.5	6.8	6.2	6.5	5.9	6.7	5.6											
3607	7.2	7.5	7.5	6.2	7.8	8.7	6.8	6.9	6.8	7.5	6.1	7.2	7.3	7.1	7.3										
3608	5.8	S	6.0	5.5	5.5	5.9	6.3	6.0	6.2	6.0	6.0	5.7	6.1	5.6	6.2	6.1	5.7	5.6	5.5	5.3					
3609	8.5	8.5	8.1	8.3	9.6	8.4	8.6	8.3	8.5	7.9															
3610	7.5	6.8	7.7	8.0	7.7	8.3	7.9	7.5	7.4	7.0	6.6	7.9	7.5												
3611	7.6	7.6	8.3	7.7	8.6	7.4	7.8	7.4	7.2	7.5	6.8														
3612	8.0	S	7.6	7.9	7.5	8.9	8.2	9.3	8.3	8.0	7.3	7.8	7.4	7.6											
3613	5.8	6.2	5.7	5.9	6.2	6.5	5.5	5.9	5.9	5.8	5.3	5.9	4.8	5.6	6.0										
3614	7.5	7.2	7.3	7.6	8.6	7.9	7.9	7.7	7.4	7.1	7.7	6.9	7.3	7.3	7.4										
3615	5.8	D	6.7	5.3	6.1	6.7	6.0	4.5	5.5	5.7	5.7	6.1	5.8	6.1	5.3										
3616	6.5	7.3	6.5	6.4	7.5	6.3	7.0	7.1	6.6	5.6	6.4	6.9	6.2	6.3	6.6	5.9	6.4	6.5	6.2	6.1					
3617	6.2	6.7	6.4	6.5	5.0	6.4	6.4	6.1	6.0	6.3	6.2	6.4	6.5	6.2	6.0										
3618	NOT PREGNANT																								
3619	7.2	D	7.2	8.0	7.2	7.9	6.7	6.1	7.2	7.9	7.1	7.0	7.5	6.7	6.7	7.2	7.6	7.4	S						
3620	7.8	8.1	7.4	8.2	7.8	9.0	8.3	8.5	7.3	7.8	7.4	7.7	7.0	6.8											
3621	6.9	7.8	7.1	7.3	7.4	6.6	6.8	6.5	6.9	7.1	7.1	6.9	6.0	7.0	6.1	6.5	6.5	7.0							
3622	7.9	7.9	8.3	8.5	8.2	7.8	7.9	7.8	7.3	7.4	7.8														
3623	8.5	9.3	9.1	8.3	7.2	9.0	9.1	7.4	8.3	9.1															
3624	7.2	7.8	7.4	7.0	7.1	7.2	7.3	6.6	6.9	6.8	7.3	7.4	7.3	7.5											
3625	7.9	7.6	8.2	8.7	7.5	8.1	7.7	8.3	7.4																
3626	7.1	7.3	7.2	7.0	7.4	7.0	7.1	6.6	7.2	7.2	7.0														
MEAN	7.2																								
S.D.	0.78																								
N	24																								

PUP STATUS CODES: S-STILLBORN D-DIED

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)			LACTATION DAY 1		
FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4601	7.8	D	7.7	8.2	8.0	7.4	7.9															
4602	ACCIDENTAL DEATH, NOT PG																					
4603	7.1	7.3	7.3	7.7	7.1	7.8	7.7	7.1	6.7	M	5.9	6.7	7.0	6.4	6.9	7.2						
4604	5.9	6.3	6.0	5.8	6.2	6.6	6.5	6.3	6.3	5.8	5.7	6.1	6.3	4.6	6.2	6.0	4.2					
4605	6.4	7.1	6.0	6.9	7.0	6.7	6.4	6.3	6.2	6.1	6.0	6.4	6.5	5.9	5.9	7.1	6.4	6.5	6.1			
4606	7.4	7.9	7.3	7.6	7.1	7.5	7.1	8.2	7.6	7.0	7.1	6.3	7.3	7.9	7.9							
4607	9.9	10.2	10.4	9.7	10.0	9.1	9.8	9.8														
4608	7.3	D	7.9	6.8	6.5	7.1	7.8	7.5	7.3	7.6	7.5	6.9	5.9	7.6	7.7	7.7						
4609	NOT PREGNANT																					
4610	7.1	6.9	7.5	7.0	6.9	7.7	6.7	7.2	6.9	7.3	6.8	7.3	6.7	6.6	7.3	7.2	6.8					
4611	7.6	6.8	8.0	7.7	7.9	7.6	7.5	7.7	7.2	8.0	7.6	7.4	8.1	7.7								
4612	6.2	6.4	6.6	6.0	6.7	6.3	5.4	6.5	6.6	5.3	6.2	6.5	6.0	6.3	5.8	6.4	6.3					
4613	5.0	5.4	4.9	5.0	5.8	5.0	4.8	4.4	4.8	4.9	5.2	4.9	5.0	5.1	4.8	4.7	4.9					
4614	7.0	7.6	7.2	7.2	7.6	7.6	7.2	7.0	7.4	6.9	8.1	6.6	4.2	6.4	6.7	6.9	6.8	7.0				
4615	5.6	5.0	6.2	5.7	6.1	6.3	5.9	6.1	5.4	6.0	5.9	5.7	4.9	5.6	4.9	4.9	5.2	5.6				
4616	7.1	7.9	7.0	7.4	7.1	7.7	7.5	6.5	6.8	6.9	7.0	6.4	6.5									
4617	NOT PREGNANT																					
4618	6.8	7.3	7.5	6.9	7.5	7.1	6.6	7.1	6.7	6.5	6.8	5.9	6.5	6.7	6.7							
4619	6.1	D	D	5.7	7.1	6.0	6.5	6.5	6.6	6.5	5.8	5.8	4.7									
4620	5.8	6.6	6.4	6.7	6.0	6.6	6.7	7.2	5.5	3.8	3.3	5.6	6.2	5.9	6.1	4.8						
4621	7.2	7.1	7.1	7.5	7.7	7.8	7.0	7.5	7.3	7.6	6.1	7.4	6.6	6.7	7.3	6.8	7.7					
4622	6.7	7.5	7.1	6.7	6.6	6.9	7.3	7.0	7.1	6.5	6.2	6.4	6.7	6.1	6.1	6.5	6.6					
4623	7.3	7.2	7.9	M	7.8	7.9	7.2	7.3	5.9	7.3	7.8	7.3	7.7	7.1	7.1	6.8						
4624	6.6	6.5	6.6	6.8	6.9	6.7	6.5	6.0	7.0	7.3	6.5	6.8	6.3	6.4	7.1	6.3	6.6	5.6				
4625	7.5	S	7.3	8.2	7.8	7.1	7.3	7.3	7.5													
4626	7.1	7.3	6.8	7.2	7.8	7.3	7.2	7.6	6.4	6.4	6.7	8.3	7.1	7.4	6.7	7.4	6.4	6.7				
MEAN	6.9																					
S.D.	0.96																					
N	23																					

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		0 MG/M3																	INDIVIDUAL PUP BODY WEIGHTS (GRAMS)		LACTATION DAY 4			
FEMALE#	MEAN	PUP#																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
1601	8.8	9.2	8.7	9.5	8.9	9.7	8.6	10.1	8.0	9.1	8.4	7.9	7.9	9.3	9.3	8.3	D	7.9	8.7					
1602	12.1	12.7	12.7	12.5	12.9	12.5	11.3	12.1	13.0	M	10.6	10.5	11.7	12.4										
1603	12.5	13.0	13.8	13.4	12.9	11.9	12.9	13.9	12.5	12.9	11.0	11.0	11.7	11.6										
1604	10.9	12.6	10.8	11.3	10.5	11.1	10.9	10.9	10.9	11.8	11.0	10.9	11.1	11.3	11.2	7.4	11.0							
1605	10.7	11.2	10.9	10.5	11.4	11.0	12.0	11.3	8.7	10.5	11.8	10.6	11.2	10.3	9.3	10.3								
1606	FOUND DEAD																							
1607	9.5	11.0	10.7	10.7	10.1	9.3	8.4	9.8	8.4	9.0	8.9	9.7	9.2	10.2	9.8	8.0	8.7							
1608	10.7	10.9	10.9	11.4	9.8	11.3	11.6	11.0	9.8	10.2	10.3	10.3	10.6	11.1	10.5	10.4								
1609	NOT PREGNANT																							
1610	9.5	10.4	9.5	9.9	8.8	9.2	10.2	9.6	9.3	9.9	9.8	9.0	9.3	8.9	8.9									
1611	TOTAL LITTER LOSS																							
1612	10.7	9.3	10.7	11.2	11.5	12.0	10.9	11.0	10.0	10.5	10.7	9.5	10.2	11.0										
1613	9.3	8.7	9.3	9.0	10.8	9.9	9.8	8.6	9.8	9.6	8.7	10.3	9.3	9.6	8.8	8.6	8.5	9.7	9.0	M				
1614	8.8	8.8	8.8	8.5	9.2	8.3	8.1	9.4	9.3	8.2	10.0	9.5	9.0	8.3	7.9	8.1	8.9	9.2						
1615	11.3	10.9	12.2	11.0	11.6	12.1	11.4	11.8	9.5	11.3	12.5	10.6	11.2											
1616	11.5	12.4	11.4	11.8	12.3	11.7	11.3	11.0	11.1	11.5	11.6	11.0	11.6	11.4										
1617	10.4	11.9	10.5	10.3	M	11.2	9.2	M	10.5	10.7	11.4	D	10.9	8.2	11.1	8.6								
1618	9.6	9.8	10.6	10.4	10.2	10.1	9.8	7.3	10.0	9.0	9.6	9.5	9.2	8.9	9.6									
1619	10.1	10.7	10.8	10.2	10.9	10.5	10.3	10.3	8.0	9.4	10.5	9.6	10.4	9.5	10.4									
1620	9.4	10.3	10.7	8.8	6.5	9.5	9.3	9.3	9.1	8.6	9.7	10.6	9.2	9.7	9.1	9.9	9.4							
1621	10.0	11.3	10.3	10.6	7.5	11.9	9.2	11.8	10.0	10.0	10.3	9.0	9.4	10.1	11.4	7.0	9.2	10.3						
1622	11.3	11.5	11.7	12.3	11.1	12.2	M	10.7	11.1	10.7	11.2	11.0	10.6											
1623	11.4	12.0	12.5	12.2	7.1	12.8	11.6	11.0	11.4	11.7	12.2	11.4												
1624	10.2	10.6	10.5	10.1	10.3	10.8	10.4	9.4	10.3	10.2	10.2	9.9	9.9	11.2	8.6									
1625	NOT PREGNANT																							
1626	9.9	11.4	9.6	9.8	9.6	9.7	9.9	9.7	9.8	10.0	9.8	9.4	10.0	9.9										
MEAN	10.4																							
S.D.	1.03																							
N	22																							

PUP STATUS CODES: D-DIED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		2000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)										LACTATION DAY 4			
FEMALE#	MEAN	PUP#																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19										
2601	12.2	12.3	11.7	12.4	12.9	12.1	12.7	12.5	11.8	12.1	11.4																			
2602	10.1	10.2	10.3	Z	11.3	9.8	10.4	9.2	10.9	10.8	10.0	9.8	10.1	10.4	8.8	9.3														
2603	9.7	10.5	9.6	9.9	8.8	10.3	9.1	9.8	9.8	8.7	9.8	9.3	9.8	10.5	9.4	9.9														
2604	8.6	9.0	7.9	8.4	8.9	8.4	8.8	8.1	9.1	8.1	9.6	M	9.2	M	7.6	8.8	D	M												
2605	10.5	11.1	11.1	10.3	10.4	11.1	10.5	9.7	10.4	10.7	10.4	10.3	10.6	10.4																
2606	9.8	10.3	10.0	10.4	10.3	9.8	10.0	10.0	8.6	10.4	8.9	9.7	9.7	9.6	9.7															
2607	9.8	10.7	9.6	10.7	9.8	9.8	11.4	9.6	9.9	9.7	9.3	9.4	9.8	9.1	10.4	8.9	8.8													
2608	9.5	10.7	11.3	8.3	10.4	10.1	8.6	10.0	9.4	10.4	8.1	9.9	8.6	9.1	8.5	9.6	9.3													
2609	NOT PREGNANT																													
2610	9.2	10.1	10.2	8.7	9.2	9.3	8.2	8.6	9.6	9.1	9.5	9.3	9.3	9.3	8.3															
2611	9.1	9.8	9.7	9.8	9.2	9.2	9.7	8.4	8.4	9.2	8.4	8.4	9.1																	
2612	10.4	10.6	11.2	11.0	11.3	10.2	9.7	9.9	11.1	10.7	10.2	9.7	9.8	10.0																
2613	10.3	10.4	12.0	9.6	10.2	9.6	11.5	9.1	10.5	10.2	9.0	10.0	9.2	11.8	11.1	9.9														
2614	10.9	12.0	11.1	11.5	10.8	11.0	11.8	10.8	10.7	11.0	10.8	10.5	11.5	9.9	9.7															
2615	10.0	10.6	10.0	9.8	11.1	10.5	10.2	10.4	9.6	9.5	9.3	9.2	10.0	10.0	9.9															
2616	9.0	9.6	8.4	9.4	8.9	9.3	8.6	7.8	10.0	9.3	8.6	8.8	9.4	9.5	9.0	9.1														
2617	9.0	S	10.8	9.5	8.3	10.0	8.6	7.9	8.7	9.4	9.2	8.9	7.7	8.4	9.1	9.3	8.7													
2618	9.7	9.4	10.1	9.6	10.1	9.2	9.3	9.8	10.6	9.9	10.2	9.6	9.4	9.1	10.0															
2619	9.8	10.2	10.0	10.5	7.1	10.4	10.7	9.5	10.4	9.9	10.0	10.4	9.9	9.7	9.2	8.9	9.8	9.2												
2620	11.6	11.7	11.6	12.2	11.3	11.8	11.0	11.1	11.9	11.7	11.8																			
2621	10.2	11.1	10.5	10.6	10.4	9.8	11.2	11.0	10.0	9.6	10.8	8.9	9.5	9.8																
2622	11.1	11.4	11.0	11.9	10.5	12.0	11.7	11.1	10.7	10.7	10.7	10.7	11.3	10.8																
2623	10.0	10.6	9.8	10.0	10.3	11.2	8.7	11.9	10.4	9.9	9.6	9.4	9.2	9.1	9.7	10.3														
2624	8.8	8.8	9.2	8.8	8.4	9.5	8.4	9.3	9.5	7.0	9.0	9.0	9.0	8.5	8.3	8.8	8.3	9.3	9.0											
2625	8.6	9.2	7.3	10.5	9.3	9.0	9.0	9.9	8.7	9.8	7.3	8.3	D	8.7	7.1	7.7	8.8	8.5	6.6	Z										
2626	12.3	13.2	12.4	12.6	12.1	12.6	12.0	12.5	11.5	12.4	11.8	D	11.8	12.6																
MEAN	10.0																													
S.D.	1.02																													
N	25																													

PUP STATUS CODES: S-STILLBORN D-DIED Z-CANNIBALIZED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)					LACTATION DAY 4				
FEMALE#	MEAN	PUP#																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
3601	10.7	9.7	9.9	11.9	11.4	10.9	10.6	10.6	10.9	10.1	11.9	10.1	10.9	10.9	9.9											
3602	10.5	10.7	11.3	9.6	10.6	D	11.5	11.3	10.6	10.4	9.3	9.5	10.7	10.5												
3603	9.5	D	9.9	10.2	9.4	9.8	10.0	10.1	9.4	9.5	8.9	7.6	9.5	9.1	9.7	10.3										
3604	9.7	10.2	10.0	9.3	10.7	9.4	10.4	9.9	9.3	9.8	9.7	9.1	9.3	9.8	9.0											
3605	NOT PREGNANT																									
3606	8.2	9.7	8.4	8.1	7.5	8.3	7.4	8.6	8.7	7.7	9.1	7.6	8.5	7.0												
3607	10.0	10.4	10.5	8.9	10.7	10.7	9.8	9.9	10.2	10.2	9.2	9.7	10.9	9.7	9.9											
3608	8.3	S	8.8	7.9	8.1	8.4	9.1	8.5	8.6	8.4	8.7	8.0	8.2	8.3	8.7	8.9	8.2	7.3	8.1	7.5						
3609	13.0	13.2	12.4	13.0	13.2	13.8	13.0	12.9	13.6	12.3																
3610	10.8	10.1	10.8	10.7	10.8	11.9	11.2	11.0	10.6	10.5	9.7	11.4	10.6													
3611	12.2	12.3	12.7	12.6	13.2	11.7	12.5	11.9	12.1	12.1	10.7															
3612	11.3	S	11.4	10.8	10.6	12.7	11.8	12.4	11.5	11.2	10.2	11.1	10.9	10.9												
3613	8.7	9.5	8.2	8.7	9.2	9.5	8.1	8.5	8.5	9.2	7.8	8.9	D	8.5	9.0											
3614	10.8	11.1	10.0	11.0	10.9	11.5	12.1	11.3	10.2	10.8	11.3	10.1	10.0	10.9	10.5											
3615	9.0	D	10.3	8.3	9.3	10.1	9.6	7.0	8.3	8.9	9.0	9.6	9.0	9.4	8.0											
3616	8.9	9.4	8.9	9.0	9.8	8.5	10.1	9.5	9.1	7.3	8.9	9.6	8.1	8.6	9.2	8.2	8.8	9.3	8.2	8.5						
3617	8.3	9.5	8.8	8.9	6.0	8.4	8.6	8.1	8.5	7.8	7.8	8.5	8.4	8.0	8.2											
3618	NOT PREGNANT																									
3619	10.1	D	10.2	11.6	10.5	10.6	10.5	7.0	10.3	11.3	10.2	9.9	10.6	9.3	9.3	10.1	10.2	10.3	S							
3620	10.9	11.5	10.7	11.5	10.7	12.3	11.8	11.7	10.5	11.3	10.5	10.4	9.1	9.9												
3621	8.6	9.2	9.4	9.4	8.6	8.7	9.1	7.6	8.4	8.5	9.2	8.5	8.0	8.9	7.5	9.0	8.1	8.6								
3622	12.2	12.4	12.9	12.7	12.4	12.1	12.3	11.8	11.6	11.3	12.6															
3623	10.8	11.4	11.8	9.5	9.2	11.6	11.6	9.3	10.9	11.6																
3624	8.3	8.7	8.4	7.9	8.4	7.8	7.7	8.0	7.5	8.1	8.6	9.0	8.2	9.2												
3625	13.0	12.8	13.3	14.4	12.1	M	13.0	13.1	12.6																	
3626	10.6	10.8	10.4	10.3	11.1	10.2	10.9	10.2	10.8	11.0	10.2															
MEAN	10.2																									
S.D.	1.49																									
N	24																									

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

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APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3																INDIVIDUAL PUP BODY WEIGHTS (GRAMS)				LACTATION DAY 4			
FEMALE#	MEAN	PUP#																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
4601	11.4	D	10.7	11.8	11.4	11.4	11.8																		
4602	ACCIDENTAL DEATH, NOT PG																								
4603	10.7	10.9	10.9	10.5	11.0	12.0	11.7	10.6	10.0	M	9.5	10.5	10.8	10.1	10.0	11.0									
4604	8.2	8.7	8.1	8.6	8.7	8.5	8.6	8.7	8.4	7.8	7.6	8.4	8.4	5.7	8.6	8.2	M								
4605	9.3	9.1	M	9.9	10.3	9.7	9.2	9.3	8.7	9.6	8.4	9.4	9.7	8.6	8.6	10.3	8.8	9.5	8.8						
4606	9.9	10.5	10.0	9.8	9.8	10.5	9.5	10.5	10.0	9.3	10.1	9.2	9.9	10.1	10.0										
4607	13.7	14.1	14.1	13.7	14.1	12.3	13.6	13.7																	
4608	10.3	D	11.3	9.8	9.4	10.6	10.9	10.4	10.2	10.8	10.1	9.9	8.6	10.8	10.3	10.8									
4609	NOT PREGNANT																								
4610	9.6	8.3	9.8	9.4	10.2	10.4	8.6	9.9	8.5	10.7	9.7	10.2	9.3	9.2	10.5	9.4	9.4								
4611	11.0	10.1	11.1	11.4	11.0	10.3	10.9	11.3	11.2	11.2	10.8	11.3	11.3	10.9											
4612	9.0	9.7	9.5	8.7	9.5	9.5	7.7	9.5	9.3	7.6	9.4	9.3	8.9	9.5	8.5	9.2	8.4								
4613	9.6	10.5	9.9	9.3	10.2	9.6	9.5	8.9	9.1	9.6	9.5	9.6	9.9	9.8	9.4	9.1	9.2								
4614	8.3	8.5	8.8	9.1	8.8	9.7	9.1	8.2	9.4	7.6	9.2	7.3	D	6.8	7.6	7.6	7.2	7.5							
4615	7.1	5.9	9.0	7.5	8.1	8.9	7.2	8.2	6.6	7.0	7.8	6.8	6.0	7.8	5.4	5.9	5.8	7.1							
4616	10.0	11.2	10.5	10.2	10.1	10.8	10.2	9.5	9.9	9.5	9.6	9.5	9.4												
4617	NOT PREGNANT																								
4618	9.0	9.5	10.1	8.8	9.7	9.6	9.1	9.0	8.8	8.1	8.7	8.0	8.7	8.7	8.7										
4619	9.4	D	D	Z	10.5	9.8	9.9	9.6	9.5	10.0	8.1	8.0	M												
4620	6.9	8.1	7.5	7.8	6.8	8.0	7.8	8.2	6.7	3.4	3.1	7.0	7.7	7.4	7.8	6.1									
4621	8.6	8.4	8.6	8.6	9.7	9.4	8.2	9.0	8.7	8.9	7.3	9.0	7.5	7.9	8.7	8.2	9.5								
4622	8.1	8.6	9.0	8.2	8.3	7.8	8.7	8.5	9.3	7.8	6.9	7.5	8.0	8.1	7.5	7.6	7.6								
4623	9.9	9.5	10.9	M	10.7	10.7	10.4	10.0	8.4	10.0	9.9	9.7	10.0	10.2	9.2	9.0									
4624	8.7	8.0	9.5	9.3	9.4	8.8	9.1	7.8	8.2	9.9	8.9	9.1	8.1	8.9	8.8	8.1	9.0	6.8							
4625	12.9	S	12.4	14.2	13.0	12.4	12.5	13.0	12.6																
4626	8.6	8.7	8.2	9.6	9.4	8.8	8.7	9.1	7.9	8.1	8.5	10.0	8.8	8.9	7.7	8.3	6.9	8.0							
MEAN	9.6																								
S.D.	1.62																								
N	23																								

PUP STATUS CODES: S-STILLBORN D-DIED Z-CANNIBALIZED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		0 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)			LACTATION DAY 7		
FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1601	12.3	13.3	C	12.9	12.2	14.3	11.9	C	C	C	11.8	11.4	11.3	13.1	C	C	D	11.2	C			
1602	16.0	16.9	16.4	16.3	17.1	C	15.5	C	17.6	M	14.0	14.5	15.6	16.5								
1603	17.2	18.4	C	C	18.4	16.8	C	18.9	17.3	17.8	15.4	16.1	16.4	16.6								
1604	15.4	C	C	C	15.5	16.0	C	16.2	C	16.1	16.5	15.3	15.2	16.1	C	11.3	15.4					
1605	15.6	16.2	C	C	16.5	C	17.3	16.3	13.0	15.4	C	15.6	16.8	C	13.8	15.5						
1606	FOUND DEAD																					
1607	13.2	14.6	14.2	C	14.0	13.0	11.9	C	C	12.5	C	12.9	13.2	14.4	C	11.1	C					
1608	15.3	15.6	C	C	14.5	16.4	16.2	16.0	14.3	14.5	C	14.2	15.8	15.8	C	C						
1609	NOT PREGNANT																					
1610	13.0	13.7	13.9	13.7	12.0	11.7	14.0	12.0	12.2	C	13.0	C	13.4	C	C							
1611	TOTAL LITTER LOSS																					
1612	13.6	C	13.5	14.0	14.3	14.9	C	13.4	12.8	13.5	C	12.1	13.5	14.0								
1613	13.9	12.7	13.9	13.4	15.6	14.4	14.7	C	C	C	C	C	C	C	13.4	C	12.6	14.4	13.7	M		
1614	12.8	C	C	C	13.0	11.8	11.8	C	13.7	C	14.2	13.6	12.2	12.6	C	12.0	13.0	C				
1615	15.5	15.5	16.4	15.5	15.6	16.1	15.8	15.8	13.8	15.8	C	14.7	C									
1616	16.3	17.4	16.6	16.6	17.1	16.5	C	15.1	15.5	C	16.4	16.2	C	15.9								
1617	14.5	15.6	14.4	14.6	M	15.1	12.4	M	15.2	14.5	15.9	D	C	11.7	15.8	C						
1618	13.8	14.3	15.0	14.9	14.3	14.4	13.4	11.0	C	C	13.2	C	14.0	13.0	C							
1619	13.9	14.4	14.8	14.7	C	14.7	C	14.4	11.8	C	C	13.5	13.8	13.3	14.0							
1620	13.7	C	14.8	12.7	M	C	13.5	13.6	13.7	12.7	14.1	15.4	12.8	C	C	C	C					
1621	14.7	16.5	C	15.5	11.9	17.1	C	C	C	14.3	C	13.9	14.4	C	17.3	11.0	C	15.0				
1622	14.9	15.9	15.3	15.9	15.3	15.6	M	C	14.6	14.0	14.2	14.2	14.3									
1623	14.8	15.1	15.9	15.7	9.9	16.8	14.8	14.4	14.7	15.1	15.6	C										
1624	14.3	14.9	15.1	14.1	15.2	14.8	14.9	13.1	14.5	14.0	C	C	C	C	12.6							
1625	NOT PREGNANT																					
1626	14.4	16.0	14.4	C	14.0	C	14.4	14.0	14.2	14.0	C	13.4	15.1	14.7								
MEAN	14.5																					
S.D.	1.23																					
N	22																					

PUP STATUS CODES: D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		2000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)					LACTATION DAY 7				
FEMALE#	MEAN	PUP#																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
2601	15.3	15.1	14.8	15.4	16.3	14.5	16.1	16.1	15.2	15.5	14.2															
2602	12.6	12.4	C	Z	14.4	12.6	13.1	12.0	C	C	12.7	11.8	12.3	12.9	11.5	C										
2603	14.2	15.2	14.1	14.4	13.1	14.9	C	14.5	14.2	12.7	C	C	C	14.7	14.0	C										
2604	11.5	12.4	10.3	11.7	11.5	C	11.6	C	C	11.1	13.4	M	10.0	M	10.1	12.7	D	M								
2605	13.3	13.8	13.6	C	13.0	13.4	13.7	12.3	13.0	13.4	C	13.1	13.5	C												
2606	13.5	13.6	14.5	C	C	13.6	13.5	13.8	12.3	C	C	13.2	13.4	13.4	13.5											
2607	13.3	C	12.9	14.3	C	13.6	16.7	C	C	C	12.8	13.1	13.3	12.6	C	11.5	12.0									
2608	13.7	15.0	15.5	C	13.9	C	12.6	C	13.0	14.2	12.2	14.0	C	13.1	C	C	13.9									
2609	NOT PREGNANT																									
2610	12.9	13.7	13.9	12.1	12.7	12.4	C	C	14.0	12.9	C	13.2	C	12.8	11.5											
2611	11.7	C	C	12.7	12.2	12.8	12.9	10.7	11.4	11.7	10.8	10.9	11.3													
2612	13.0	13.4	13.2	13.4	14.0	12.8	C	C	C	13.7	12.7	12.1	12.3	12.2												
2613	13.7	14.5	14.9	12.3	13.2	C	14.2	C	C	13.3	12.4	C	C	15.0	14.1	13.5										
2614	15.9	16.6	16.3	C	C	16.3	C	16.2	16.2	C	15.5	15.6	16.8	14.8	14.7											
2615	13.7	14.3	13.6	12.9	15.1	14.4	C	C	13.3	13.4	13.4	13.0	13.5	C	C											
2616	13.2	C	C	C	13.8	13.4	13.9	11.9	13.5	C	12.5	13.3	13.2	13.7	13.0	C										
2617	12.5	S	13.9	12.0	11.7	14.5	12.2	11.1	12.3	12.6	13.1	C	C	11.8	C	C	C									
2618	14.1	C	C	C	14.8	13.8	13.0	15.0	15.0	14.1	13.8	C	13.7	13.2	14.2											
2619	14.5	C	16.0	16.1	10.6	15.5	C	C	C	14.4	C	15.4	15.3	C	C	13.4	15.0	13.6								
2620	15.5	15.7	15.6	16.2	14.8	15.4	14.9	15.4	15.9	15.5	15.4															
2621	14.0	15.1	14.8	14.2	13.8	C	15.4	C	13.7	C	14.0	12.5	13.1	13.7												
2622	14.7	15.5	14.2	C	C	15.7	15.6	14.5	14.2	14.5	14.2	14.5	C	13.7												
2623	14.5	16.1	14.5	14.6	15.3	15.2	C	C	C	14.2	C	13.5	C	12.6	14.3	14.9										
2624	13.2	13.7	C	C	C	C	C	13.9	13.9	11.2	13.8	14.0	12.9	C	C	C	11.9	13.7	13.0							
2625	11.0	12.1	10.4	C	12.8	11.3	C	13.1	C	11.6	10.3	C	D	C	C	9.2	C	10.5	8.6	Z						
2626	16.7	18.0	16.8	17.4	16.4	C	16.8	17.2	15.3	16.0	16.3	D	C	17.2												
MEAN	13.7																									
S.D.	1.35																									
N	25																									

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3														INDIVIDUAL PUP BODY WEIGHTS (GRAMS)						LACTATION DAY 7			
FEMALE#	MEAN	PUP#																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
3601	14.7	13.2	14.0	16.5	16.1	C	C	C	C	12.5	16.2	13.7	15.7	14.7	14.0										
3602	13.6	14.2	14.7	12.6	13.8	D	C	14.8	13.3	13.0	C	12.2	13.6	13.5											
3603	13.5	D	14.0	14.3	14.5	13.4	C	13.6	13.6	C	C	10.4	13.2	C	13.6	14.4									
3604	13.6	14.5	13.7	C	14.6	13.5	C	14.1	13.4	C	13.2	12.5	C	13.8	12.8										
3605	NOT PREGNANT																								
3606	10.7	12.2	10.2	10.6	10.3	C	9.4	11.6	C	10.1	11.8	C	11.3	9.1											
3607	14.4	14.4	15.1	13.2	15.3	15.4	14.0	14.6	C	C	C	C	15.4	13.4	13.7										
3608	12.9	S	14.5	12.1	12.2	13.1	13.5	C	C	C	C	C	C	12.7	14.0	13.2	12.7	C	C	11.3					
3609	16.5	16.4	15.8	16.0	16.7	17.1	16.6	16.6	17.5	15.4															
3610	13.8	12.7	14.3	14.0	14.0	C	14.6	C	14.2	13.3	12.4	14.4	13.7												
3611	15.9	15.9	16.4	16.7	17.1	15.4	16.8	15.5	15.4	15.8	14.3														
3612	14.6	S	14.6	14.0	C	15.8	15.1	C	14.8	14.9	13.3	14.6	14.1	14.6											
3613	11.9	12.7	11.0	12.0	12.0	12.7	C	C	11.7	12.2	10.4	12.3	D	C	11.7										
3614	15.2	C	14.0	14.8	14.8	16.2	16.7	C	C	15.8	16.2	14.0	14.6	14.6	C										
3615	13.3	D	15.1	12.4	13.1	14.7	13.8	10.3	C	C	13.2	13.6	13.3	13.6	C										
3616	13.3	14.3	13.2	13.7	C	C	14.7	14.1	C	10.8	C	13.8	C	C	C	12.1	13.3	C	12.9	C					
3617	13.0	14.0	13.7	14.2	9.9	13.3	C	12.9	13.2	C	12.2	C	13.6	12.9	C										
3618	NOT PREGNANT																								
3619	14.0	D	14.6	15.6	14.2	C	C	9.8	C	15.1	14.2	13.9	14.6	C	13.2	C	C	14.5	S						
3620	14.4	C	14.5	14.6	14.1	16.9	15.2	C	C	14.5	13.8	14.7	12.6	12.8											
3621	14.0	C	15.4	C	C	14.2	C	13.2	14.2	14.2	15.2	C	13.1	C	12.5	14.4	13.9	C							
3622	15.4	15.6	16.0	16.2	15.5	15.5	15.5	14.9	14.7	14.6	15.2														
3623	14.7	15.0	15.9	13.4	12.1	15.8	15.8	12.9	15.3	15.9															
3624	12.5	12.8	12.7	12.1	13.3	11.7	11.5	C	11.7	12.7	13.5	C	12.8	C											
3625	17.7	17.6	18.0	19.0	16.5	M	17.2	18.2	17.2																
3626	13.2	13.3	12.7	12.9	14.0	12.9	13.8	13.1	13.8	13.4	12.5														
MEAN	14.0																								
S.D.	1.48																								
N	24																								

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)			LACTATION DAY 7		
FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4601	15.9	D	14.7	16.1	15.6	16.0	17.1															
4602	ACCIDENTAL DEATH, NOT PG																					
4603	14.4	15.4	15.1	14.9																		
4604	11.6	12.8	C	12.2	12.2	12.0	C	C	14.5	C	M	13.2	14.2	14.2	13.1	13.9	15.2					
4605	14.1	14.0	M	15.1	16.0	14.3	C	C	13.5	C	13.2	C	14.8	12.8	13.4	14.3	C	C	C			
4606	13.8	14.0	13.6	C	C	14.7	13.5	14.7	14.2	12.8	14.3	12.1	C	C	14.1							
4607	18.4	19.4	18.9	18.5	18.3	16.8	18.2	18.7														
4608	13.6	D	14.6	12.7	12.2	13.6	14.3	C	C	14.3	C	12.9	C	13.9	13.4	14.4						
4609	NOT PREGNANT																					
4610	12.7	11.1	12.9	12.9	12.5	13.7	C	C	C	C	13.2	13.4	12.7	C	C	12.3	12.2					
4611	15.1	14.4	15.6	15.9	15.3	14.3	15.1	C	15.4	15.4	C	C	14.8	15.2								
4612	13.0	14.3	C	12.8	13.5	13.5	C	C	12.9	11.0	13.6	C	12.5	C	C	13.7	12.1					
4613	13.6	14.5	14.3	13.7	C	C	C	12.9	C	13.5	C	C	13.9	13.8	13.0	12.9	13.2					
4614	12.7	12.7	13.3	12.7	13.4	14.1	C	C	C	C	C	11.5	D	11.4	13.6	12.1	C	11.9				
4615	10.9	C	13.5	C	C	13.0	11.3	12.4	10.5	C	C	10.9	9.3	C	8.9	9.4	9.7	C				
4616	13.7	C	14.2	14.2	14.0	14.4	14.3	13.3	13.5	C	13.5	13.0	13.0									
4617	NOT PREGNANT																					
4618	13.0	14.1	14.4	12.6	13.2	13.6	13.1	C	C	11.9	12.7	11.8	12.5	C	C							
4619	12.2	D	D	Z	13.5	12.4	12.8	12.3	12.6	13.3	10.4	10.0	M									
4620	9.0	C	C	10.3	C	C	9.5	10.6	8.9	5.0	C	8.9	10.5	8.8	9.5	7.8						
4621	14.6	C	C	14.7	C	16.0	14.8	15.2	15.1	C	12.8	14.4	13.1	C	C	14.0	15.4					
4622	13.6	C	14.9	13.4	13.3	13.9	14.7	C	C	12.9	12.9	13.3	C	C	12.9	13.4	C					
4623	12.7	12.3	13.6	M	13.9	14.0	13.5	12.5	C	C	C	C	12.8	12.2	12.2	10.4						
4624	12.1	11.4	C	C	C	12.4	12.7	11.2	C	13.5	C	13.1	11.5	12.1	12.5	11.1	C	C				
4625	16.3	S	16.0	17.8	16.5	16.3	15.8	16.1	15.9													
4626	14.3	C	14.1	C	15.3	13.9	14.6	14.9	C	C	C	16.2	14.3	C	13.2	13.8	C	12.9				
MEAN	13.5																					
S.D.	1.91																					
N	23																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		0 MG/M3																			INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																			LACTATION DAY 14									
FEMALE#	MEAN	PUP#																																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																													
1601	23.2	24.9	C	24.9	23.9	24.0	23.5	C	C	C	22.5	22.4	20.3	24.6	C	C	D	20.8	C																														
1602	29.3	31.5	27.9	30.0	29.7	C	29.3	C	30.5	M	25.9	27.7	29.5	31.1																																			
1603	27.4	28.9	C	C	27.9	27.7	C	29.3	27.3	27.3	24.9	27.0	26.5	27.1																																			
1604	27.2	C	C	C	26.2	28.1	C	28.3	C	28.0	31.0	26.5	26.7	27.4	C	22.6	27.6																																
1605	28.5	29.8	C	C	29.3	C	30.7	29.5	23.5	28.1	C	28.3	31.0	C	26.3	28.7																																	
1606	FOUND DEAD																																																
1607	25.4	26.5	27.1	C	27.1	25.6	23.5	C	C	26.0	C	24.3	24.9	25.7	C	23.3	C																																
1608	26.9	27.4	C	C	26.4	28.1	27.5	28.1	25.0	25.8	C	27.9	25.0	27.5	C	C																																	
1609	NOT PREGNANT																																																
1610	25.0	26.1	27.3	24.6	24.3	21.1	27.4	22.8	24.8	C	25.4	C	25.8	C	C																																		
1611	TOTAL LITTER LOSS																																																
1612	25.5	C	24.8	26.0	27.3	28.1	C	25.1	23.7	26.1	C	22.8	25.7	25.0																																			
1613	26.3	23.3	26.4	25.7	28.2	26.5	27.9	C	C	C	C	C	C	C	26.4	C	24.9	27.4	26.1	M																													
1614	24.8	C	C	C	24.8	23.7	23.8	C	26.6	C	25.7	26.1	24.0	24.3	C	24.4	24.9	C																															
1615	26.5	27.0	27.3	27.1	26.4	26.2	27.1	25.7	24.9	27.1	C	26.1	C																																				
1616	27.9	28.5	29.4	28.9	29.0	27.8	C	27.0	27.4	C	26.9	27.1	C	27.0																																			
1617	25.9	26.3	25.9	25.9	M	26.2	22.3	M	27.3	26.7	27.9	D	C	20.9	29.1	C																																	
1618	24.7	24.7	25.9	27.0	26.1	25.1	25.0	22.4	C	C	23.5	C	24.2	23.1	C																																		
1619	23.6	24.6	24.5	24.7	C	23.4	C	24.7	20.8	C	C	22.3	23.8	22.6	25.0																																		
1620	24.1	C	25.7	21.8	M	C	23.5	24.4	24.1	23.3	24.5	26.3	23.2	C	C	C	C																																
1621	27.9	29.9	C	27.9	25.2	30.3	C	C	C	28.7	C	26.8	28.2	C	30.4	23.3	C	28.6																															
1622	26.0	26.8	27.0	26.5	26.9	27.3	M	C	24.8	25.2	24.9	24.6	25.6																																				
1623	23.7	24.8	25.3	24.4	18.2	26.2	23.7	23.1	23.3	23.6	24.2	C																																					
1624	27.5	27.6	28.7	27.6	27.9	28.7	29.2	26.6	28.3	25.8	C	C	C	C	25.1																																		
1625	NOT PREGNANT																																																
1626	25.8	28.8	24.6	C	26.1	C	25.0	25.6	25.1	25.1	C	24.5	27.1	26.5																																			
MEAN	26.0																																																
S.D.	1.68																																																
N	22																																																

PUP STATUS CODES: D-DIED C-CULLED M-MISSING

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Sponsor Study No: 211-TAME-1G

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		2000 MG/M3		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																LACTATION DAY 14			
FEMALE#	MEAN	PUP#																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
2601	24.7	25.0	24.3	25.3	25.3	23.8	25.2	25.0	24.7	24.3	23.9												
2602	23.0	21.7	C	Z	25.6	23.7	26.3	22.3	C	C	22.2	20.5	22.2	22.1	23.0	C							
2603	27.3	29.0	27.3	28.7	24.5	28.4	C	28.8	26.7	25.1	C	C	C	27.8	26.5	C							
2604	22.5	24.5	18.4	22.6	21.7	C	22.6	C	C	21.6	26.2	M	D	M	20.3	24.6	D	M					
2605	22.4	24.1	21.6	C	22.3	22.3	23.3	21.0	22.0	22.7	C	22.2	22.3	C									
2606	24.6	25.8	25.8	C	C	24.7	24.6	25.2	22.2	C	C	24.7	25.3	23.6	24.0								
2607	24.6	C	23.6	25.3	C	23.9	28.5	C	C	C	23.9	25.1	26.5	24.0	C	22.6	22.6						
2608	23.2	24.6	25.1	C	23.3	C	21.7	C	21.9	24.3	21.5	24.3	C	22.8	C	C	22.2						
2609	NOT PREGNANT																						
2610	23.2	23.4	25.0	21.2	22.3	21.5	C	C	25.5	24.4	C	23.4	C	23.1	22.4								
2611	19.7	C	C	20.5	20.6	21.1	20.8	18.5	19.1	18.8	18.8	19.0	19.6										
2612	24.7	25.5	24.8	25.5	26.2	24.9	C	C	C	26.1	23.0	22.7	23.7	24.3									
2613	24.3	24.9	26.2	21.6	23.0	C	23.2	C	C	24.7	23.8	C	C	26.8	23.4	25.5							
2614	28.3	30.4	28.0	C	C	28.6	C	28.7	28.4	C	27.4	27.7	29.3	27.8	26.6								
2615	20.7	20.9	20.8	20.0	22.8	22.3	C	C	20.0	20.1	19.3	20.4	20.3	C	C								
2616	24.6	C	C	C	26.8	25.4	25.9	22.9	25.4	C	23.8	24.1	24.2	24.5	23.1	C							
2617	27.5	S	29.4	26.7	27.1	29.4	27.7	25.2	25.5	28.2	30.1	C	C	25.8	C	C	C						
2618	26.4	C	C	C	27.5	26.6	25.0	27.5	27.9	26.3	25.1	C	26.3	25.7	25.6								
2619	26.8	C	28.1	29.7	21.2	26.8	C	C	C	29.5	C	26.1	28.0	C	C	24.7	27.4	26.1					
2620	26.3	26.0	26.3	27.7	25.5	25.5	25.3	25.2	27.3	27.0	27.3												
2621	24.1	24.3	25.1	25.2	23.0	C	26.2	C	23.4	C	24.2	22.9	23.0	24.1									
2622	27.0	28.3	26.0	C	C	27.4	27.9	26.3	27.1	26.3	26.7	27.5	C	26.0									
2623	27.3	31.7	27.3	27.2	27.4	29.0	C	C	C	26.2	C	25.4	C	23.6	25.9	28.8							
2624	23.2	23.1	C	C	C	C	C	24.0	24.2	20.8	24.3	23.4	22.4	C	C	C	21.8	24.4	23.9				
2625	20.0	20.4	18.1	C	20.8	21.5	C	24.2	C	22.5	19.4	C	D	C	C	18.3	C	17.2	17.2	Z			
2626	27.7	29.6	27.7	28.0	27.5	C	28.0	28.5	26.0	26.6	26.8	D	C	28.2									
MEAN	24.6																						
S.D.	2.42																						
N	25																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3															INDIVIDUAL PUP BODY WEIGHTS (GRAMS)				LACTATION DAY 14			
FEMALE#	MEAN	PUP#																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
3601	26.0	24.0	25.4	27.4	28.2	C	C	C	C	22.9	28.0	25.7	27.9	26.0	24.5									
3602	23.5	26.3	24.5	23.1	24.1	D	C	25.3	22.7	21.4	C	21.3	23.9	22.7										
3603	24.5	D	26.2	24.9	24.6	24.9	C	24.3	25.4	C	C	20.9	25.2	C	24.2	24.0								
3604	23.6	24.1	23.8	C	26.0	23.9	C	24.2	24.1	C	23.1	21.4	C	22.9	22.2									
3605	NOT PREGNANT																							
3606	19.9	23.3	15.7	19.5	19.9	C	18.0	21.9	C	19.5	22.0	C	21.8	17.6										
3607	24.8	24.0	25.8	23.7	24.7	26.0	24.4	24.9	C	C	C	C	25.7	25.2	23.3									
3608	25.7	S	28.3	24.4	23.5	26.8	26.7	C	C	C	C	C	C	26.2	25.7	26.7	25.6	C	C	22.9				
3609	27.3	27.4	26.0	27.5	27.0	28.5	27.3	28.5	27.8	25.3														
3610	24.0	21.7	24.3	25.0	23.8	C	24.2	C	25.1	24.6	22.8	24.4	23.8											
3611	24.6	25.4	25.1	26.3	26.8	23.2	25.5	23.3	24.9	23.9	21.5													
3612	22.4	S	22.6	22.7	C	23.6	22.4	C	23.3	22.4	20.6	22.4	21.9	22.3										
3613	21.5	22.1	20.2	22.0	21.9	22.6	C	C	21.2	23.1	19.2	21.2	D	C	21.9									
3614	26.3	C	24.3	25.5	25.0	26.8	28.7	C	C	27.4	28.4	23.3	28.7	24.5	C									
3615	23.4	D	26.9	21.9	23.7	24.6	23.2	19.6	C	C	23.4	22.8	23.4	24.4	C									
3616	24.7	26.2	24.1	25.0	C	C	26.2	26.2	C	21.4	C	26.0	C	C	C	23.1	24.6	C	23.9	C				
3617	22.8	24.1	24.6	24.6	18.2	23.2	C	21.1	22.7	C	22.1	C	23.6	23.3	C									
3618	NOT PREGNANT																							
3619	25.6	D	26.1	28.3	24.8	C	C	19.8	C	26.9	25.7	25.5	28.1	C	23.4	C	C	27.0	S					
3620	24.6	C	24.5	24.6	24.0	29.4	25.0	C	C	25.1	23.9	25.1	22.2	22.6										
3621	25.3	C	27.1	C	C	25.8	C	24.7	25.1	25.4	26.9	C	24.2	C	23.8	25.2	24.7	C						
3622	24.9	25.8	24.9	27.1	24.7	25.6	24.3	24.3	23.6	24.0	25.1													
3623	22.9	23.9	24.0	21.5	19.9	23.6	24.0	21.1	24.2	23.5														
3624	22.7	23.5	23.5	22.7	22.3	22.5	21.0	C	20.0	23.2	25.1	C	22.9	C										
3625	30.7	30.4	31.0	32.0	29.3	M	30.6	30.8	31.1															
3626	20.9	20.8	19.9	20.3	22.8	20.5	22.0	19.5	22.0	20.8	20.4													
MEAN	24.3																							
S.D.	2.22																							
N	24																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																LACTATION DAY 14			
FEMALE#	MEAN	PUP#																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
4601	29.1	D	27.4	29.7	29.8	27.8	31.0																
4602	ACCIDENTAL DEATH, NOT PG																						
4603	25.9	29.4	26.4	26.6	C	C	C	26.4	C	M	23.5	26.3	25.5	22.4	25.2	27.1							
4604	20.6	22.2	C	20.7	22.1	21.7	C	C	20.5	C	20.9	20.9	C	17.2	19.7	20.5	M						
4605	25.2	24.5	M	26.7	28.8	24.7	C	C	25.1	C	24.3	C	26.1	22.7	23.5	25.8	C	C	C				
4606	23.6	23.2	23.3	C	C	24.5	23.5	24.7	23.6	22.5	24.7	21.2	C	C	24.4								
4607	27.1	27.5	28.1	27.3	27.3	24.8	27.9	26.9															
4608	23.1	D	24.3	21.2	21.8	22.6	24.1	C	C	24.4	C	22.2	C	23.2	23.5	24.0							
4609	NOT PREGNANT																						
4610	23.0	19.4	22.1	23.2	25.1	25.3	C	C	C	C	24.6	22.7	23.2	C	C	22.7	22.2						
4611	26.2	25.6	24.4	28.1	28.1	25.6	26.3	C	27.1	26.8	C	C	25.3	24.3									
4612	23.6	24.9	C	23.2	24.8	23.8	C	C	23.8	21.7	23.8	C	23.2	C	C	24.6	22.1						
4613	23.3	24.0	24.7	23.4	C	C	C	22.7	C	23.2	C	C	23.4	24.5	22.4	22.5	22.3						
4614	22.9	24.5	23.0	24.1	23.6	23.6	C	C	C	C	C	22.2	D	20.9	24.3	21.0	C	21.4					
4615	22.9	C	26.6	C	C	26.4	23.6	26.0	D	C	C	23.6	20.7	C	18.6	20.6	20.1	C					
4616	23.4	C	23.9	24.1	23.6	23.4	24.3	23.2	23.6	C	23.0	22.9	22.2										
4617	NOT PREGNANT																						
4618	22.1	22.9	22.5	22.3	22.6	23.3	22.4	C	C	21.7	22.2	20.2	20.8	C	C								
4619	22.7	D	D	Z	25.4	22.7	24.7	23.1	24.6	23.4	19.6	18.4	M										
4620	14.2	C	C	16.7	C	C	14.9	17.2	13.6	9.2	C	13.8	15.2	13.7	15.0	12.6							
4621	24.7	C	C	25.8	C	26.2	25.5	27.0	24.8	C	22.1	23.3	22.3	C	C	24.8	25.1						
4622	23.6	C	26.2	22.7	22.0	24.1	25.2	C	C	23.5	22.5	23.6	C	C	22.7	23.6	C						
4623	24.2	23.8	25.0	M	26.1	25.7	26.9	25.2	C	C	C	C	24.2	21.3	22.1	21.4							
4624	21.7	21.1	C	C	C	21.3	22.3	21.6	C	22.9	C	23.0	21.2	22.4	21.6	19.4	C	C					
4625	26.3	S	26.1	27.5	26.8	25.4	25.9	26.1	26.5														
4626	25.0	C	24.4	C	26.5	24.3	25.8	26.5	C	C	C	26.6	25.2	C	22.6	24.5	C	23.8					
MEAN	23.7																						
S.D.	2.81																						
N	23																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																		LACTATION DAY 21	
0 MG/M3																					
FEMALE#	MEAN	PUP#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1601	36.1	39.3	C	40.9	38.3	37.4	37.1	C	C	C	36.5	33.9	29.8	37.7	C	C	D	30.5	C		
1602	49.5	53.7	48.4	49.6	50.9	C	48.1	C	52.7	M	43.5	46.9	49.2	52.2							
1603	44.8	48.1	C	C	43.8	46.3	C	50.5	43.0	45.1	41.3	42.5	42.2	45.0							
1604	46.8	C	C	C	44.7	46.2	C	49.1	C	48.9	50.1	46.1	45.5	46.7	C	41.3	49.6				
1605	49.0	52.4	C	C	52.0	C	52.6	52.3	37.6	46.4	C	50.4	54.2	C	44.5	47.4					
1606	FOUND DEAD																				
1607	40.0	43.0	44.9	C	43.4	39.6	31.8	C	C	41.7	C	38.1	39.7	41.6	C	36.0	C				
1608	44.4	42.8	C	C	41.6	47.7	46.5	47.0	41.0	41.7	C	46.8	46.6	42.3	C	C					
1609	NOT PREGNANT																				
1610	41.0	43.4	43.6	41.7	40.7	36.0	44.6	35.9	39.7	C	40.3	C	44.1	C	C						
1611	TOTAL LITTER LOSS																				
1612	41.3	C	40.8	42.1	44.3	47.5	C	41.2	39.4	41.4	C	35.7	39.8	40.9							
1613	42.3	35.3	43.7	42.4	45.2	41.9	42.2	C	C	C	C	C	C	C	45.0	C	42.7	41.5	43.2	M	
1614	37.9	C	C	C	38.0	36.6	35.6	C	43.6	C	38.3	41.4	37.4	35.1	C	35.7	37.0	C			
1615	39.1	45.7	38.6	36.0	44.5	46.8	36.0	35.5	34.2	36.9	C	36.6	C								
1616	48.3	49.3	51.1	48.5	50.7	49.8	C	47.1	47.7	C	45.3	46.7	C	46.4							
1617	41.6	42.2	38.3	43.4	M	45.3	36.5	M	47.3	39.1	47.1	D	C	30.0	46.5	C					
1618	42.5	43.1	43.6	48.9	44.9	43.2	42.1	37.7	C	C	40.0	C	41.6	40.0	C						
1619	39.8	42.9	39.8	41.1	C	39.6	C	41.0	36.0	C	C	37.7	38.5	37.1	44.4						
1620	39.2	C	40.7	34.7	M	C	38.6	38.3	41.6	37.8	41.1	44.4	35.8	C	C	C	C				
1621	41.5	44.4	C	41.8	37.4	44.7	C	C	C	43.5	C	38.9	42.9	C	43.1	35.5	C	43.1			
1622	43.6	48.8	40.7	47.4	47.0	45.1	M	C	39.7	42.5	41.7	41.2	41.7								
1623	38.4	40.4	40.6	39.1	28.3	44.0	37.1	36.9	36.8	39.6	41.0	C									
1624	48.0	50.1	48.0	50.8	48.3	50.4	51.8	42.6	48.5	45.5	C	C	C	C	43.8						
1625	NOT PREGNANT																				
1626	39.2	42.7	36.4	C	39.0	C	38.7	39.6	39.5	39.5	C	36.0	39.7	40.8							
MEAN	42.5																				
S.D.	3.87																				
N	22																				

PUP STATUS CODES: D-DIED C-CULLED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		2000 MG/M3										INDIVIDUAL PUP BODY WEIGHTS (GRAMS)										LACTATION DAY 21				
FEMALE#	MEAN	PUP#																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
2601	40.7	42.1	35.1	43.0	43.6	39.6	42.6	37.3	41.6	41.0	40.7															
2602	36.7	35.2	C	Z	40.9	38.0	39.4	33.9	C	C	36.5	31.9	36.6	36.6	38.2	C										
2603	44.4	46.5	44.6	45.1	40.1	46.3	C	45.5	44.3	42.6	C	C	C	45.8	43.5	C										
2604	31.1	32.7	24.7	31.2	28.9	C	31.0	C	C	28.9	38.5	M	D	M	28.1	35.6	D	M								
2605	36.7	39.7	34.4	C	36.5	34.6	37.1	37.7	37.2	35.8	C	38.6	35.5	C												
2606	37.8	39.5	40.3	C	C	38.8	36.4	40.0	34.9	C	C	37.1	35.4	38.7	37.0											
2607	40.9	C	34.1	43.0	C	39.1	47.7	C	C	C	39.8	42.2	44.9	41.5	C	37.9	38.9									
2608	37.1	39.6	41.7	C	35.6	C	33.1	C	35.0	38.8	35.9	40.2	C	36.7	C	C	34.2									
2609	NOT PREGNANT																									
2610	36.4	36.0	41.4	33.8	36.9	32.9	C	C	39.3	38.5	C	37.6	C	36.1	31.1											
2611	29.0	C	C	30.0	31.2	31.2	30.8	27.8	27.9	26.8	27.8	27.6	29.0													
2612	40.6	43.8	42.2	40.2	42.6	40.8	C	C	C	42.0	37.7	36.7	40.1	40.0												
2613	40.9	42.3	41.7	34.7	38.3	C	39.0	C	C	42.7	40.7	C	C	46.4	39.8	43.2										
2614	44.7	50.6	41.5	C	C	45.6	C	43.7	45.2	C	42.7	45.2	47.3	43.0	42.6											
2615	34.8	35.8	34.9	32.4	37.8	35.3	C	C	35.1	34.1	32.8	35.5	34.5	C	C											
2616	36.5	C	C	C	37.7	35.5	39.2	33.7	37.8	C	34.6	39.6	34.8	37.7	34.1	C										
2617	42.5	S	47.3	41.8	40.5	D	42.2	37.4	40.1	44.1	46.5	C	C	42.9	C	C	C									
2618	41.0	C	C	C	43.9	40.8	38.2	41.4	42.5	40.6	39.4	C	41.2	41.9	40.1											
2619	43.4	C	45.9	45.9	32.4	43.7	C	C	C	46.0	C	43.5	44.8	C	C	42.1	47.2	42.6								
2620	41.8	42.9	41.6	41.8	38.3	42.4	38.9	38.8	44.2	45.6	43.1															
2621	39.7	40.2	40.8	40.1	36.9	C	44.2	C	38.3	C	40.6	38.3	38.5	38.9												
2622	43.1	40.7	38.0	C	C	47.5	44.6	40.4	46.7	45.6	42.4	45.7	C	39.6												
2623	42.8	51.2	42.5	42.2	45.3	46.6	C	C	C	40.4	C	40.7	C	36.5	35.1	47.4										
2624	35.5	33.7	C	C	C	C	C	36.8	38.5	31.2	38.1	35.8	33.5	C	C	C	33.6	37.6	35.7							
2625	31.4	31.9	28.8	C	36.8	38.4	C	34.7	C	34.9	28.2	C	D	C	C	26.8	C	26.6	26.8	Z						
2626	44.5	47.2	45.7	45.7	42.5	C	45.8	46.2	41.6	42.3	43.8	D	C	44.3												
MEAN	39.0																									
S.D.	4.38																									
N	25																									

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3																INDIVIDUAL PUP BODY WEIGHTS (GRAMS)					LACTATION DAY 21				
FEMALE#	MEAN	PUP#																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19							
3601	42.6	37.7	42.1	45.5	40.5	C	C	C	C	38.9	47.9	44.2	45.7	43.8	40.0												
3602	35.0	39.8	36.2	34.1	36.2	D	C	37.6	33.9	31.3	C	32.0	35.5	33.5													
3603	41.4	D	46.6	42.3	40.8	41.6	C	41.1	43.8	C	C	34.9	43.3	C	40.2	39.7											
3604	35.2	36.3	37.2	C	37.9	35.7	C	33.3	35.2	C	36.0	32.7	C	35.2	32.7												
3605	NOT PREGNANT																										
3606	32.8	39.8	D	28.4	30.8	C	28.2	36.1	C	31.1	37.1	C	36.1	27.6													
3607	39.0	35.9	37.2	38.1	42.5	40.7	39.1	36.1	C	C	C	C	43.6	38.6	38.1												
3608	41.3	S	45.8	38.5	36.8	41.1	44.3	C	C	C	C	C	C	40.5	42.4	44.5	40.3	C	C	38.5							
3609	41.5	38.3	36.9	41.0	45.6	42.8	39.5	45.7	44.0	39.3																	
3610	41.8	36.3	42.3	41.5	42.4	C	42.3	C	43.2	42.8	40.7	43.8	42.5														
3611	40.7	40.5	42.4	38.5	47.0	38.9	43.9	40.2	40.2	40.9	34.3																
3612	38.1	S	35.6	38.8	C	39.0	38.3	C	39.8	37.9	36.3	39.5	38.2	37.2													
3613	30.4	31.6	27.3	29.6	31.4	34.9	C	C	28.9	31.5	26.9	31.3	D	C	30.3												
3614	44.0	C	40.1	42.6	42.5	47.3	49.0	C	C	45.1	46.3	39.7	46.1	41.8	C												
3615	36.5	D	44.6	34.1	37.2	40.5	34.7	29.4	C	C	37.2	37.2	35.8	34.1	C												
3616	42.0	46.7	41.6	40.9	C	C	45.4	43.8	C	37.0	C	44.1	C	C	C	40.1	41.3	C	39.2	C							
3617	34.6	36.2	37.8	37.9	27.4	34.9	C	32.5	36.6	C	35.1	C	33.4	34.3	C												
3618	NOT PREGNANT																										
3619	43.5	D	47.1	51.4	44.8	C	C	30.6	C	41.4	41.4	43.3	47.6	C	39.9	C	C	47.9	S								
3620	41.5	C	43.6	40.5	41.8	47.9	43.8	C	C	41.2	43.0	42.0	32.6	38.6													
3621	42.8	C	46.0	C	C	41.9	C	41.7	42.6	42.0	45.3	C	42.3	C	40.1	44.0	42.5	C									
3622	42.5	44.5	48.5	47.7	40.4	43.4	40.2	39.3	40.4	36.7	43.5																
3623	39.7	41.7	42.5	37.6	34.3	42.4	41.2	34.1	43.6	39.6																	
3624	38.3	39.0	42.0	38.6	39.9	33.3	38.4	C	33.1	37.2	42.3	C	39.5	C													
3625	52.6	52.6	54.0	52.0	49.1	M	52.5	54.9	53.4																		
3626	34.2	33.1	31.9	29.1	37.7	32.5	38.1	32.0	37.5	36.3	33.4																
MEAN	39.7																										
S.D.	4.65																										
N	24																										

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																LACTATION DAY 21			
FEMALE#	MEAN	PUP#																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
4601	48.5	D	45.9	50.9	49.3	46.8	49.4																
4602	ACCIDENTAL DEATH, NOT PG																						
4603	44.1	47.6	45.7	46.2	C	C	C	44.7	C	M	38.8	43.5	43.1	39.0	43.0	49.1							
4604	33.3	35.8	C	33.2	34.5	34.1	C	C	34.5	C	34.0	34.1	C	29.1	30.3	33.7	M						
4605	44.6	44.7	M	45.7	50.9	44.9	C	C	43.6	C	43.1	C	46.5	39.4	42.1	44.9	C	C	C				
4606	33.3	31.4	32.9	C	C	37.9	36.2	32.5	33.7	31.2	33.8	30.1	C	C	33.8								
4607	50.2	50.0	52.1	51.6	51.5	44.7	53.0	48.2															
4608	38.2	D	38.3	35.5	34.5	36.8	39.6	C	C	43.2	C	35.3	C	37.8	39.7	41.2							
4609	NOT PREGNANT																						
4610	36.8	30.4	34.2	35.2	37.3	42.3	C	C	C	C	38.4	39.1	35.4	C	C	39.4	35.8						
4611	41.0	36.3	37.5	44.0	38.9	38.9	42.5	C	45.7	44.8	C	C	42.3	38.7									
4612	39.8	40.2	C	39.7	43.1	41.8	C	C	40.2	37.2	40.8	C	39.6	C	C	42.0	33.5						
4613	39.7	42.0	41.4	39.1	C	C	C	38.7	C	39.5	C	C	40.3	41.6	37.7	38.8	38.2						
4614	39.8	41.5	42.4	41.1	40.7	39.2	C	C	C	C	C	38.1	D	36.9	42.3	37.3	C	38.5					
4615	34.6	C	39.7	C	C	37.9	34.8	40.3	D	C	C	36.2	32.5	C	28.5	30.9	30.5	C					
4616	41.3	C	41.0	43.3	44.2	41.0	44.0	42.4	40.3	C	42.4	36.8	38.1										
4617	NOT PREGNANT																						
4618	34.9	36.2	32.1	31.1	35.8	39.1	37.9	C	C	36.7	29.8	33.8	36.8	C	C								
4619	35.6	D	D	Z	41.1	34.7	39.5	35.1	37.2	38.1	30.6	28.7	M										
4620	20.2	C	C	25.1	C	C	21.7	22.7	19.8	13.3	C	19.8	20.9	19.1	21.9	18.1							
4621	38.8	C	C	42.7	C	42.9	36.7	43.5	38.9	C	36.8	39.1	32.5	C	C	37.0	37.5						
4622	37.7	C	41.0	35.9	37.0	39.0	37.5	C	C	37.4	38.2	37.9	C	C	34.1	39.2	C						
4623	35.7	35.7	35.9	M	38.1	37.6	37.5	35.7	C	C	C	C	39.8	33.2	31.9	31.3							
4624	35.4	32.9	C	C	C	33.3	37.0	35.4	C	38.8	C	37.5	34.6	37.5	36.2	30.8	C	C					
4625	44.1	S	43.7	48.7	44.5	41.6	41.9	43.5	44.5														
4626	38.4	C	34.1	C	42.4	35.0	42.6	39.0	C	C	C	43.3	37.4	C	34.3	36.8	C	39.0					
MEAN	38.5																						
S.D.	6.02																						
N	23																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

Huntingdon Life Sciences 00-4202
Sponsor Study No: 211-TAME-1G

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP I		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)															LACTATION DAY 28			
0 MG/M3																				
FEMALE#	MEAN	PUP#																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1601	73.2	80.1	C	82.0	78.9	76.3	73.3	C	C	C	73.4	64.5	65.2	73.9	C	C	D	64.8	C	
1602	87.9	95.4	87.5	91.5	89.8	C	90.4	C	95.3	M	75.0	81.0	84.7	88.3						
1603	83.7	90.9	C	C	86.7	85.6	C	90.6	85.3	83.3	73.7	77.6	80.8	82.1						
1604	81.6	C	C	C	81.3	82.8	C	84.4	C	87.0	90.5	78.3	80.2	76.9	C	72.6	81.8			
1605	87.4	93.7	C	C	90.6	C	92.6	93.6	67.6	83.7	C	86.8	94.4	C	84.4	86.5				
1606	FOUND DEAD																			
1607	76.1	81.1	85.0	C	85.2	75.4	67.5	C	C	75.2	C	70.9	73.6	79.0	C	68.1	C			
1608	78.1	77.7	C	C	72.9	84.1	85.0	83.2	73.7	73.0	C	70.5	81.8	79.4	C	C				
1609	NOT PREGNANT																			
1610	74.5	77.9	80.7	77.9	74.9	65.4	76.2	70.7	70.7	C	71.9	C	78.7	C	C					
1611	TOTAL LITTER LOSS																			
1612	75.2	C	74.1	74.9	82.9	86.5	C	75.5	73.6	76.2	C	65.5	69.9	73.0						
1613	77.0	66.1	79.0	76.8	81.5	78.9	78.5	C	C	C	C	C	C	C	74.2	C	77.8	83.7	73.1	M
1614	73.4	C	C	C	76.8	72.7	70.6	C	82.6	C	76.6	75.8	68.9	68.7	C	70.4	71.3	C		
1615	79.2	88.3	84.5	77.4	83.8	88.4	72.8	71.4	70.2	79.5	C	76.0	C							
1616	89.2	92.9	96.2	90.3	96.4	94.9	C	84.3	86.9	C	84.7	82.9	C	82.7						
1617	76.7	75.5	75.6	84.1	M	79.8	69.6	M	79.5	74.6	81.5	D	C	65.0	81.9	C				
1618	79.8	81.2	83.3	90.1	84.8	84.8	76.4	72.8	C	C	76.1	C	75.5	73.4	C					
1619	73.7	80.4	78.8	76.3	C	77.4	C	76.3	63.4	C	C	66.9	68.4	69.5	79.6					
1620	75.9	C	81.1	70.2	M	C	76.3	73.9	76.2	73.6	78.9	80.6	72.7	C	C	C	C			
1621	82.6	89.3	C	83.1	78.9	92.5	C	C	C	86.9	C	76.1	83.1	C	81.2	69.2	C	85.4		
1622	77.2	82.2	78.7	83.2	88.5	80.9	M	C	71.1	74.3	70.9	71.8	70.7							
1623	71.9	76.4	75.9	77.1	56.9	82.3	72.0	67.3	69.7	68.1	73.2	C								
1624	83.9	88.6	89.9	89.4	85.5	88.5	87.0	73.1	80.8	79.0	C	C	C	C	77.6					
1625	NOT PREGNANT																			
1626	74.2	82.1	74.2	C	72.4	C	73.6	73.8	74.9	73.0	C	72.1	72.3	73.3						
MEAN	78.8																			
S.D.	5.12																			
N	22																			

PUP STATUS CODES: D-DIED C-CULLED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP II		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																	LACTATION DAY 28		
FEMALE#	MEAN	2000 MG/M3																			
		PUP#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
2601	69.7	73.0	65.0	69.9	76.2	71.7	74.9	66.0	68.6	64.6	67.6										
2602	75.7	75.8	C	Z	84.2	76.1	82.9	69.2	C	C	77.9	67.1	74.0	72.9	77.3	C					
2603	86.8	92.0	85.8	92.5	78.1	92.1	C	88.6	82.8	83.9	C	C	C	87.7	84.8	C					
2604	65.6	Z	53.3	68.8	67.3	C	65.2	C	C	61.6	80.1	M	D	M	59.3	69.2	D	M			
2605	72.7	78.0	70.8	C	73.5	72.7	77.1	70.5	69.9	67.1	C	74.0	73.6	C							
2606	75.5	78.9	80.3	C	C	82.2	75.0	80.1	68.1	C	C	72.8	72.7	70.1	74.8						
2607	79.9	C	69.5	84.3	C	84.4	93.0	C	C	C	80.0	81.2	82.5	80.9	C	71.8	71.6				
2608	73.3	80.2	83.3	C	72.5	C	68.5	C	70.8	79.2	69.7	74.1	C	66.8	C	C	68.4				
2609	NOT PREGNANT																				
2610	72.7	73.9	83.3	71.2	72.9	68.0	C	C	76.0	75.2	C	70.7	C	71.5	63.9						
2611	61.8	C	C	65.0	68.7	64.9	67.3	57.4	54.5	60.6	58.7	59.9	60.5								
2612	77.5	82.2	79.1	82.3	84.9	81.8	C	C	C	79.1	68.8	68.9	73.3	74.7							
2613	76.4	80.7	80.7	69.9	74.1	C	75.8	C	C	78.7	73.7	C	C	83.1	72.4	74.6					
2614	81.2	92.9	80.1	C	C	84.4	C	84.0	79.7	C	80.5	78.8	82.7	75.6	72.9						
2615	65.6	69.4	61.1	62.4	69.1	70.3	C	C	66.1	65.8	61.0	65.2	65.1	C	C						
2616	77.3	C	C	C	83.3	79.6	82.2	75.9	85.0	C	67.4	80.6	69.4	76.4	73.1	C					
2617	81.4	S	88.7	83.3	81.3	D	81.7	73.5	79.5	83.4	84.8	C	C	76.8	C	C	C				
2618	82.7	C	C	C	89.3	88.2	79.3	85.8	91.0	78.0	77.8	C	80.3	78.0	78.9						
2619	80.0	C	85.8	87.8	63.6	82.1	C	C	C	87.4	C	79.9	77.3	C	C	75.2	83.5	77.3			
2620	81.1	86.0	81.2	84.1	81.7	78.0	77.0	74.6	83.6	85.0	79.7										
2621	72.4	76.3	77.4	76.9	66.1	C	74.4	C	69.9	C	73.5	66.9	70.3	72.4							
2622	85.4	87.1	81.5	C	C	92.7	89.8	82.3	86.8	85.4	83.8	84.2	C	80.4							
2623	77.1	96.2	77.4	75.1	80.5	85.2	C	C	C	67.5	C	72.7	C	65.9	70.7	79.7					
2624	68.4	70.3	C	C	C	C	C	72.3	71.6	60.7	73.7	67.2	65.6	C	C	C	65.3	69.8	67.0		
2625	67.5	69.9	64.2	C	77.2	81.4	C	73.9	C	71.8	60.1	C	D	C	C	58.0	C	60.5	58.1	Z	
2626	82.9	87.3	87.7	87.1	82.0	C	85.6	82.7	75.3	77.0	82.3	D	C	82.2							
MEAN	75.6																				
S.D.	6.60																				
N	25																				

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

APPENDIX U

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP III		10000 MG/M3														INDIVIDUAL PUP BODY WEIGHTS (GRAMS)					LACTATION DAY 28				
FEMALE#	MEAN	PUP#																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
3601	81.7	78.9	84.4	80.0	83.0	C	C	C	C	79.1	88.8	81.5	84.3	81.1	75.4										
3602	71.0	84.7	67.3	69.9	73.2	D	C	79.6	72.9	66.8	C	65.6	76.1	54.3											
3603	78.5	D	91.1	80.6	78.8	79.1	C	77.5	79.4	C	C	66.0	78.6	C	79.7	74.4									
3604	69.4	74.8	72.1	C	78.5	68.6	C	66.1	69.5	C	66.1	63.0	C	69.4	66.0										
3605	NOT PREGNANT																								
3606	62.4	76.2	D	52.1	62.4	C	52.9	69.1	C	57.5	70.1	C	70.4	50.7											
3607	76.6	73.7	73.1	72.9	83.2	81.9	72.1	73.5	C	C	C	C	83.8	74.1	77.5										
3608	77.9	S	85.7	72.3	75.5	80.1	85.5	C	C	C	C	C	C	71.4	81.2	81.5	72.6	C	C	73.6					
3609	76.4	61.9	63.0	77.9	86.5	75.7	77.8	90.2	83.7	71.2															
3610	81.4	73.1	83.1	85.5	85.4	C	82.3	C	79.9	86.1	76.6	83.9	78.2												
3611	77.7	75.7	80.6	76.7	92.6	76.1	86.9	72.4	71.8	76.2	67.8														
3612	69.8	S	65.4	71.4	C	74.6	74.4	C	74.2	71.7	61.5	68.3	66.9	69.9											
3613	61.0	64.2	58.1	61.3	65.5	67.3	C	C	55.8	63.3	54.2	59.1	D	C	61.7										
3614	79.5	C	76.0	80.9	79.2	86.9	86.7	C	C	79.7	81.0	71.3	82.8	70.3	C										
3615	67.4	D	83.1	67.1	67.9	73.8	64.1	50.9	C	C	69.0	68.3	64.5	65.5	C										
3616	79.9	90.9	85.7	83.2	C	C	83.6	81.5	C	71.8	C	80.6	C	C	C	73.0	74.7	C	74.0	C					
3617	68.2	70.0	76.0	77.2	60.9	64.3	C	59.0	74.2	C	64.4	C	69.0	67.1	C										
3618	NOT PREGNANT																								
3619	81.7	D	87.4	93.4	88.5	C	C	66.4	C	81.4	83.2	75.9	85.7	C	75.1	C	C	79.8	S						
3620	80.7	C	86.7	80.0	82.0	95.3	88.9	C	C	83.9	81.8	76.7	56.6	75.4											
3621	79.2	C	90.9	C	C	82.4	C	76.6	80.4	72.0	83.1	C	75.9	C	75.6	79.0	76.5	C							
3622	78.9	85.3	80.9	93.2	82.0	84.0	72.9	71.8	74.4	67.6	76.9														
3623	73.8	80.2	78.5	72.9	67.8	76.7	73.7	65.2	77.8	71.2															
3624	73.9	84.0	81.3	73.1	74.2	60.4	70.7	C	64.8	72.9	80.7	C	76.7	C											
3625	93.7	95.6	99.2	95.5	86.9	M	94.9	90.5	93.6																
3626	61.2	61.2	59.3	53.5	66.6	60.6	64.7	57.9	63.9	65.2	58.7														
MEAN	75.1																								
S.D.	7.66																								
N	24																								

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV		20000 MG/M3		INDIVIDUAL PUP BODY WEIGHTS (GRAMS)															LACTATION DAY 28				
FEMALE#	MEAN	PUP#																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
4601	86.4	D	85.1	91.6	89.1	80.7	85.3																
4602	ACCIDENTAL DEATH, NOT PG																						
4603	83.1	88.6	86.5	83.7	C	C	C	89.8	C	M	76.3	79.7	77.6	76.3	80.4	92.3							
4604	61.8	66.9	C	63.4	62.9	63.3	C	C	66.2	C	60.6	62.1	C	52.3	58.1	62.5	M						
4605	79.3	81.1	M	85.1	91.1	81.6	C	C	76.6	C	75.1	C	80.3	68.5	75.9	77.8	C	C	C				
4606	65.6	63.2	65.5	C	C	75.1	70.8	65.1	72.0	64.2	58.9	49.9	C	C	71.0								
4607	90.8	97.0	99.1	95.5	90.4	81.6	90.3	81.7															
4608	75.9	D	82.6	70.5	72.4	74.7	79.8	C	C	77.7	C	73.8	C	73.4	74.5	79.6							
4609	NOT PREGNANT																						
4610	74.9	64.8	71.4	73.9	76.6	84.1	C	C	C	C	76.3	78.7	73.0	C	C	77.7	72.6						
4611	79.2	73.0	74.3	83.3	83.5	78.4	81.8	C	84.1	83.5	C	C	78.6	71.0									
4612	70.5	44.5	C	73.9	76.5	79.9	C	C	74.7	66.2	71.5	C	74.1	C	C	76.7	67.3						
4613	75.4	83.3	79.1	74.2	C	C	C	72.9	C	75.8	C	C	72.9	76.7	73.1	72.1	73.6						
4614	75.2	79.3	82.3	78.8	78.5	80.4	C	C	C	C	C	69.8	D	67.9	72.9	72.5	C	69.4					
4615	70.6	C	82.9	C	C	78.6	71.5	83.0	D	C	C	72.0	62.6	C	59.1	62.6	63.4	C					
4616	77.2	C	79.2	80.8	86.6	78.8	84.3	77.7	76.9	C	72.2	65.8	69.9										
4617	NOT PREGNANT																						
4618	69.5	72.6	68.2	69.3	74.4	76.0	72.3	C	C	71.6	56.7	65.1	69.1	C	C								
4619	69.9	D	D	Z	82.2	70.0	74.7	70.0	71.4	72.9	58.2	60.0	M										
4620	43.2	C	C	53.1	C	C	48.0	50.5	38.4	22.1	C	46.1	47.1	41.0	49.2	36.9							
4621	76.6	C	C	84.9	C	84.5	81.6	87.0	79.9	C	65.7	73.2	68.9	C	C	65.0	75.3						
4622	73.4	C	84.3	73.0	72.6	79.1	78.2	C	C	71.1	69.9	69.0	C	C	65.5	71.5	C						
4623	70.3	72.1	79.3	M	80.0	71.0	72.2	65.9	C	C	C	C	76.0	64.4	65.5	56.6							
4624	68.3	63.8	C	C	C	67.8	68.9	69.5	C	75.0	C	71.7	65.2	71.6	66.0	63.0	C	C					
4625	81.7	S	84.5	90.4	84.5	79.5	76.8	77.9	78.0														
4626	72.9	C	66.7	C	81.5	69.8	78.1	74.3	C	C	C	77.4	71.6	C	67.7	71.6	C	70.1					
MEAN	73.6																						
S.D.	9.36																						
N	23																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED Z-CANNIBALIZED M-MISSING

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1101		NO REMARKABLE OBSERVATIONS
1102	LUNGS	DISCOLORED FOCI; SLIGHT LEFT AND DIAPHRAGMATIC LOBES - 0.1 CM IN DIAMETER, TAN
1103	LUNGS	DISCOLORED FOCI; SLIGHT; LEFT 0.1 CM IN DIAMETER, RED
1104		NO REMARKABLE OBSERVATIONS
1105		NO REMARKABLE OBSERVATIONS
1106		NO REMARKABLE OBSERVATIONS
1107	EXTERNAL EXAM	ULCERATION RIGHT UPPER LATERAL EXTERNAL FINDING NOT CONFIRMED
	SKIN	SCAB; MODERATE RIGHT UPPER LATERAL- 1.5 X 2.0 CM, RED TISSUE SAVED
1108	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
1109		NO REMARKABLE OBSERVATIONS
1110	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
1111		NO REMARKABLE OBSERVATIONS
1112		NO REMARKABLE OBSERVATIONS

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1113		NO REMARKABLE OBSERVATIONS
1114	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
1115	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
1116	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
1117		NO REMARKABLE OBSERVATIONS
1118	EXTERNAL EXAM	MASS LOWER DORSAL EXTERNAL FINDING NOT CONFIRMED
	SKIN	ABSCESS LOWER DORSAL - 1.0 CM IN DIAMETER, TAN, THICK MATERIAL TISSUE SAVED
1119		NO REMARKABLE OBSERVATIONS
1120		NO REMARKABLE OBSERVATIONS
1121		NO REMARKABLE OBSERVATIONS
1122		NO REMARKABLE OBSERVATIONS
1123		NO REMARKABLE OBSERVATIONS
1124		NO REMARKABLE OBSERVATIONS
1125	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1126		NO REMARKABLE OBSERVATIONS

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2101	KIDNEY EXTERNAL EXAM	DILATED RENAL PELVIS; SLIGHT; RIGHT ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2102		NO REMARKABLE OBSERVATIONS
2103	KIDNEY	DILATED RENAL PELVIS; SLIGHT; BILATERAL
2104		NO REMARKABLE OBSERVATIONS
2105		NO REMARKABLE OBSERVATIONS
2106	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES, WHITE, 0.1 CM IN DIAMETER
2107		NO REMARKABLE OBSERVATIONS
2108		NO REMARKABLE OBSERVATIONS
2109		NO REMARKABLE OBSERVATIONS
2110	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2111		NO REMARKABLE OBSERVATIONS
2112		NO REMARKABLE OBSERVATIONS
2113	EXTERNAL EXAM EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2114		NO REMARKABLE OBSERVATIONS
2115		NO REMARKABLE OBSERVATIONS
2116	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
2117		NO REMARKABLE OBSERVATIONS
2118	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
2119	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	EYE(S) - APPEAR DAMAGED; RIGHT EXTERNAL FINDING CONFIRMED TISSUE SAVED
2120		NO REMARKABLE OBSERVATIONS
2121		NO REMARKABLE OBSERVATIONS
2122	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES; 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA GENERAL EXTERNAL FINDING CONFIRMED
2123	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
2124		NO REMARKABLE OBSERVATIONS

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2125		NO REMARKABLE OBSERVATIONS
2126	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3101		NO REMARKABLE OBSERVATIONS
3102		NO REMARKABLE OBSERVATIONS
3103	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
3104		NO REMARKABLE OBSERVATIONS
3105		NO REMARKABLE OBSERVATIONS
3106	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
3107	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3108		NO REMARKABLE OBSERVATIONS
3109	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
3110		NO REMARKABLE OBSERVATIONS
3111	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3112		NO REMARKABLE OBSERVATIONS
3113	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3114		NO REMARKABLE OBSERVATIONS

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3115		NO REMARKABLE OBSERVATIONS
3116		NO REMARKABLE OBSERVATIONS
3117	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
3118		NO REMARKABLE OBSERVATIONS
3119		NO REMARKABLE OBSERVATIONS
3120		NO REMARKABLE OBSERVATIONS
3121		NO REMARKABLE OBSERVATIONS
3122		NO REMARKABLE OBSERVATIONS
3123		NO REMARKABLE OBSERVATIONS
3124		NO REMARKABLE OBSERVATIONS
3125		NO REMARKABLE OBSERVATIONS
3126	GONADS	EPIDIDYIMIDES- ABSCESS; RIGHT CAUDA; 2.0 X 1.2 CM, TAN, SOFT, THICK GREEN MATERIAL

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4101		NO REMARKABLE OBSERVATIONS
4102		NO REMARKABLE OBSERVATIONS
4103		NO REMARKABLE OBSERVATIONS
4104	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4105	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
4106	GONADS	EPIDIDYMIDES- ABSCESS; LEFT CAUDA, 1.0 CM IN DIAMETER, SOFT, GREEN, THICK MATERIAL
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
4107	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4108		NO REMARKABLE OBSERVATIONS
4109	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4110		NO REMARKABLE OBSERVATIONS
4111		NO REMARKABLE OBSERVATIONS
4112		NO REMARKABLE OBSERVATIONS

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

GROUP IV 20000 MG/M3 INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

ANIMAL#	ORGAN	OBSERVATION
4113	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4114		NO REMARKABLE OBSERVATIONS
4115		NO REMARKABLE OBSERVATIONS
4116		NO REMARKABLE OBSERVATIONS
4117	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES; 0.1 CM IN DIAMETER, TAN
4118	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
4119		NO REMARKABLE OBSERVATIONS
4120		NO REMARKABLE OBSERVATIONS
4121		NO REMARKABLE OBSERVATIONS
4122	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4123	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
4124		NO REMARKABLE OBSERVATIONS
4125		NO REMARKABLE OBSERVATIONS

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4126		NO REMARKABLE OBSERVATIONS

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1601	ESTROUS CYCLE	DIESTRUS
1602	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1603	ESTROUS CYCLE	DIESTRUS
1604	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1605	EXTERNAL EXAM	ALOPECIA GENERAL EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1606 DIED	ESTROUS CYCLE	DIESTRUS
1607	ESTROUS CYCLE	DIESTRUS
1608	ESTROUS CYCLE	DIESTRUS
1609 NP	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	PROESTRUS
1610	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES; 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS

DIED=FOUND DEAD NP=NOT PREGNANT

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1611 TLL	ESTROUS CYCLE	DIESTRUS
1612	ESTROUS CYCLE	PROESTRUS
1613	ESTROUS CYCLE	ESTRUS
1614	ESTROUS CYCLE	DIESTRUS
1615	ESTROUS CYCLE	DIESTRUS
1616	ESTROUS CYCLE	METESTRUS
1617	ESTROUS CYCLE	DIESTRUS
1618	ESTROUS CYCLE	METESTRUS
1619	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA GENERAL EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1620	ESTROUS CYCLE	DIESTRUS
1621	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1622	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN LEFT AND AZYGUS LOBES - 0.1 CM IN DIAMETER, RED
	ESTROUS CYCLE	DIESTRUS

TLL=TOTAL LITTER LOSS

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1623	ESTROUS CYCLE	DIESTRUS
1624	ESTROUS CYCLE	DIESTRUS
1625 NP	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1626	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2601	ESTROUS CYCLE	DIESTRUS
2602	KIDNEY ESTROUS CYCLE	DILATED RENAL PELVIS; EXTREME; BILATERAL DIESTRUS
2603	ESTROUS CYCLE	DIESTRUS
2604	LUNGS ESTROUS CYCLE	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN DIESTRUS
2605	EXTERNAL EXAM ESTROUS CYCLE	MASS RIGHT UPPER LATERAL - 2.0 X 2.5 CM, TAN, FIRM EXTERNAL FINDING CONFIRMED RIGHT AXILLARY LYMPH NODES ENLARGED, MODERATE TISSUES SAVED PROESTRUS
2606	LUNGS ESTROUS CYCLE	DISCOLORED FOCI; MODERATE ALL LOBES; 0.1 CM TO 0.2 CM IN DIAMETER, TAN DIESTRUS
2607	ESTROUS CYCLE	ESTRUS
2608	EXTERNAL EXAM ESTROUS CYCLE	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED DIESTRUS
2609 NP	ESTROUS CYCLE	DIESTRUS
2610	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2611	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
2612	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - 0.1 CM IN DIAMETER, TAN
	LIVER	ADHESION; EXTREME BETWEEN LEFT AND MEDIAN LOBES, AND TO THE DIAPHRAGM DIAPHRAGM SAVED WITH SAMPLE OF LIVER
	ESTROUS CYCLE	DIESTRUS
2613	ESTROUS CYCLE	DIESTRUS
2614	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
2615	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	ESTRUS
2616	ESTROUS CYCLE	DIESTRUS
2617	ESTROUS CYCLE	PROESTRUS
2618	KIDNEY	DILATED RENAL PELVIS; SLIGHT; LEFT
	ESTROUS CYCLE	DIESTRUS

APPENDIX V

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2619	ESTROUS CYCLE	DIESTRUS
2620	KIDNEY ESTROUS CYCLE	DILATED RENAL PELVIS; EXTREME; LEFT ESTRUS
2621	ESTROUS CYCLE	DIESTRUS
2622	ESTROUS CYCLE	DIESTRUS
2623	ESTROUS CYCLE	DIESTRUS
2624	ESTROUS CYCLE	DIESTRUS
2625	ESTROUS CYCLE	DIESTRUS
2626	EXTERNAL EXAM ESTROUS CYCLE	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED METESTRUS

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3601	ESTROUS CYCLE	DIESTRUS
3602	ESTROUS CYCLE	DIESTRUS
3603	ESTROUS CYCLE	DIESTRUS
3604	ESTROUS CYCLE	DIESTRUS
3605 NP	ESTROUS CYCLE	DIESTRUS
3606	ESTROUS CYCLE	METESTRUS
3607	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING NOT CONFIRMED
	ESTROUS CYCLE	PROESTRUS
3608	ESTROUS CYCLE	DIESTRUS
3609	ESTROUS CYCLE	DIESTRUS
3610	ESTROUS CYCLE	DIESTRUS
3611	ESTROUS CYCLE	DIESTRUS
3612	ESTROUS CYCLE	DIESTRUS
3613	ESTROUS CYCLE	DIESTRUS
3614	ESTROUS CYCLE	PROESTRUS
3615	LUNGS	DISCOLORED FOCI ALL LOBES; TAN, 0.1 CM - 0.2 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3616	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
3617	ESTROUS CYCLE	DIESTRUS
3618 NNMD	ESTROUS CYCLE	ESTRUS
3619	ESTROUS CYCLE	DIESTRUS
3620	ESTROUS CYCLE	DIESTRUS
3621	ESTROUS CYCLE	DIESTRUS
3622	ESTROUS CYCLE	ESTRUS
3623	OVARY	CYST(S); RIGHT 1.3 CM IN DIAMETER, RED
	ESTROUS CYCLE	DIESTRUS
3624		NO REMARKABLE OBSERVATIONS
3625	EXTERNAL EXAM	ALOPECIA EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA GENERAL EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
3626	ESTROUS CYCLE	DIESTRUS

NNMD=NOT PREG., NO MATING DATE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4601	ESTROUS CYCLE	DIESTRUS
4602 NPAD	THYMUS	DISCOLORED FOCI; SLIGHT; BILATERAL 0.1-0.2 CM IN DIAMETER, RED TISSUE SAVED
	THORACIC CAVITY	FLUID FILLED; EXTREME THICK, RED, GELATINOUS MATERIAL
4603	ESTROUS CYCLE	DIESTRUS
4604	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
4605	ESTROUS CYCLE	DIESTRUS
4606	ESTROUS CYCLE	DIESTRUS
4607	ESTROUS CYCLE	DIESTRUS
4608	ESTROUS CYCLE	DIESTRUS
4609 NP	ESTROUS CYCLE	DIESTRUS
4610	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
4611	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	EYE(S)- APPEAR DAMAGED EXTERNAL FINDING NOT CONFIRMED
	ESTROUS CYCLE	PROESTRUS

NP=NOT PREGNANT NPAD=ACCIDENTAL DEATH, NOT PG

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4612	EXTERNAL EXAM	INCISORS MALOCCLUDED
		EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
4613	ESTROUS CYCLE	DIESTRUS
4614	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
	UTERUS	CYST(S); SLIGHT; RIGHT
		RIGHT HORN - 0.3 CM IN DIAMETER, CLEAR
	ESTROUS CYCLE	DIESTRUS
4615	ESTROUS CYCLE	DIESTRUS
4616	ESTROUS CYCLE	DIESTRUS
4617 NP	ESTROUS CYCLE	ESTRUS
4618	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
4619	ESTROUS CYCLE	DIESTRUS
4620	ESTROUS CYCLE	DIESTRUS
4621	ESTROUS CYCLE	DIESTRUS
4622	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	ESTRUS
4623	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT

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INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4624	ESTROUS CYCLE	DIESTRUS
4625	ESTROUS CYCLE	PROESTRUS
4626	ESTROUS CYCLE	DIESTRUS

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1601	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	D	4	STOMACH	MILK IN STOMACH
	18F	C	4		NO REMARKABLE OBSERVATIONS
	1602	3M	K	28	
4M		K	28		NO REMARKABLE OBSERVATIONS
5M		C	4		NO REMARKABLE OBSERVATIONS
7M		C	4		NO REMARKABLE OBSERVATIONS
8M		K	28		NO REMARKABLE OBSERVATIONS
10F		K	28		NO REMARKABLE OBSERVATIONS
12F		K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; LEFT CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
13F		K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; LEFT CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
1603		2M	C	4	
	3M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D=DIED C=CULLED K=SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1603	(CONTINUED)				
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
1604	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
1605	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	13M	C	4		NO REMARKABLE OBSERVATIONS
	14M	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
1606	DPP	1F	S	LUNGS	LUNG FLOTATION TEST - STILLBORN
					NEGATIVE
				STOMACH	MILK UNDETERMINED
				GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	2M	U	1		NO REMARKABLE OBSERVATIONS
	3M	U	1		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE U-UNSCHEDULED SACRIFICE

DPP=DIED POST PARTUM

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1606	(CONTINUED)				
	4M	U	1		NO REMARKABLE OBSERVATIONS
	5M	U	1		NO REMARKABLE OBSERVATIONS
	6M	U	1		NO REMARKABLE OBSERVATIONS
	7M	U	1		NO REMARKABLE OBSERVATIONS
	8M	U	1		NO REMARKABLE OBSERVATIONS
	9M	U	1		NO REMARKABLE OBSERVATIONS
	10M	U	1		NO REMARKABLE OBSERVATIONS
	11M	U	1		NO REMARKABLE OBSERVATIONS
	12F	U	1		NO REMARKABLE OBSERVATIONS
	13F	U	1		NO REMARKABLE OBSERVATIONS
	14F	U	1		NO REMARKABLE OBSERVATIONS
	15F	U	1		NO REMARKABLE OBSERVATIONS
1607	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
1608	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE U-UNSCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1608	(CONTINUED)				
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
1610	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
1611	TLL	1M	S	LUNGS	LUNG FLOTATION TEST - STILLBORN
					NEGATIVE
				STOMACH	MILK UNDETERMINED
				GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
				GROSS EXAM	CANNIBALIZED
				GROSS EXAM	INTERNAL SEX UNDETERMINED
1612	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

TLL=TOTAL LITTER LOSS

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1613	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
1614	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
1615	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1615	(CONTINUED)				
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
1616	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
1617	1M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; BILATERAL CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
	11F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
1618	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1618	(CONTINUED)				
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
1619	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
1620	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
1621	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1621	(CONTINUED)				
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS
1622	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
1623	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
1624	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1626	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3F	C	4		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2601	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
2602	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	Z	1	GROSS EXAM	CANNIBALIZED
				GROSS EXAM	INTERNAL SEX UNDETERMINED
				STOMACH	MILK UNDETERMINED
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
2603	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED Z-CANNIBALIZED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2604	1M	Z	23	GROSS EXAM	CANNIBALIZED
					PARTIALY CANNIBALIZED, HEAD, NECK, BOTH FORELIMB AND PART OF
					THORACIC COLUMN PRESENT
					FRONTAL BONES FRACTURED
				STOMACH	MILK UNDETERMINED
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	D	8	GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
				GROSS EXAM	INTERNAL SEX UNDETERMINED
2605				STOMACH	NO MILK IN STOMACH
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	D	4	STOMACH	MILK IN STOMACH
2605	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
2606	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED Z-CANNIBALIZED K-SCHEDULED SACRIFICE

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2606	(CONTINUED)				
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
2607	1M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
2608	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F-Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2610	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2611	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2612	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2613	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2613	(CONTINUED)				
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
2614	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
2615	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
2616	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2616	(CONTINUED)				
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
2617	1M	S		LUNGS	LUNG FLOTATION TEST - STILLBORN
					NEGATIVE
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	D	15	STOMACH	MILK IN STOMACH
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
2618	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2619	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
2620	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
2621	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2622	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2622	(CONTINUED)				
	4M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2623	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
2624	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	18F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2625	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	D	1	STOMACH LUNGS	NO MILK IN STOMACH LUNG FLOTATION TEST - FOUND DEAD POSITIVE
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4	STOMACH	MILK IN STOMACH
	19F	Z	0	STOMACH GROSS EXAM	MILK IN STOMACH CANNIBALIZED
2626	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	D	1	LUNGS	LUNG FLOTATION TEST - FOUND DEAD POSITIVE
				STOMACH	MILK IN STOMACH
	12F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED Z-CANNIBALIZED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3601	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
3602	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	D	3	STOMACH	MILK IN STOMACH
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3603	1F	D	0	LUNGS	LUNG FLOTATION TEST - FOUND DEAD POSITIVE
				STOMACH	NO MILK IN STOMACH
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3604	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
3606	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	D	15	STOMACH	NO MILK IN STOMACH
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
3607	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D=DIED C=CULLED K=SCHEDULED SACRIFICE

APPENDIX W

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3608	1U	S		GROSS EXAM STOMACH	CANNIBALIZED MILK UNDETERMINED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11M	C	4		NO REMARKABLE OBSERVATIONS
	12M	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
	18F	C	4		NO REMARKABLE OBSERVATIONS
	19F	K	28		NO REMARKABLE OBSERVATIONS
3609	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
3610	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
3611	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3611	(CONTINUED)				
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
3612	1M	S		LUNGS	LUNG FLOTATION TEST - STILLBORN
					NEGATIVE
				STOMACH	NO MILK IN STOMACH
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3613	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	D	2	STOMACH	MILK IN STOMACH
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
3614	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3614	(CONTINUED)				
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
3615	1M	S		GROSS EXAM STOMACH	CANNIBALIZED MILK UNDETERMINED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
3616	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
	19F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3617	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
3619	1F	D	0	LUNGS	LUNG FLOTATION TEST - FOUND DEAD POSITIVE
				STOMACH	MILK IN STOMACH
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS
	18F	S		GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
				GROSS EXAM	INTERNAL SEX UNDETERMINED
				LUNGS	LUNG FLOTATION TEST - STILLBORN NEGATIVE
				STOMACH	MILK UNDETERMINED

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3620	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3621	1M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
3622	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
3623	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP III 10000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
3623	(CONTINUED)				
	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
3624	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
3625	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
3626	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4601	1F	D	0	LUNGS	LUNG FLOTATION TEST - FOUND DEAD
					POSITIVE
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; RIGHT
					CORTEX - 0.1 CM IN DIAMETER, CLEAR
					TISSUE SAVED
4603	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4604	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4605	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
	18F	C	4		NO REMARKABLE OBSERVATIONS
4606	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
4607	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3F	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
4608	1F	D	0	GROSS EXAM	AUTOLYSIS
				GROSS EXAM	POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY INTERNAL SEX UNDETERMINED

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4608	(CONTINUED)				
				LUNGS	LUNG FLOTATION TEST - FOUND DEAD
					POSITIVE
				STOMACH	MILK UNDETERMINED
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4610	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4611	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4611	(CONTINUED)				
	13F	K	28		NO REMARKABLE OBSERVATIONS
4612	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4613	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4614	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4614	(CONTINUED)				
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	D	2	STOMACH	NO MILK IN STOMACH
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS
4615	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	D	8	GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
				STOMACH	MILK IN STOMACH
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
4616	1M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D=DIED C=CULLED K=SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4618	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4619	1M	D	0	GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT TIME OF NECROPSY
				GROSS EXAM	CANNIBALIZED
				GROSS EXAM	INTERNAL SEX UNDETERMINED
				LUNGS	LUNG FLOTATION TEST - FOUND DEAD
					POSITIVE
				STOMACH	MILK UNDETERMINED
	2F	D	0	GROSS EXAM	AUTOLYSIS
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
				GROSS EXAM	CANNIBALIZED
				GROSS EXAM	INTERNAL SEX UNDETERMINED
				LUNGS	LUNG FLOTATION TEST - FOUND DEAD
					POSITIVE
				STOMACH	MILK UNDETERMINED
	3M	Z	1	LUNGS	LUNG FLOTATION TEST - FOUND DEAD
					POSITIVE
				GROSS EXAM	CANNIBALIZED
				STOMACH	MILK IN STOMACH
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED Z-CANNIBALIZED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4619	(CONTINUED)				
	11F	K	28		NO REMARKABLE OBSERVATIONS
4620	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
4621	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4622	1M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4622	(CONTINUED)				
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
4623	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
4624	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
4625	1F	S		LUNGS	LUNG FLOTATION TEST - STILLBORN
					NEGATIVE
				STOMACH	NO MILK IN STOMACH

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP IV 20000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
4625	(CONTINUED)				
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
4626	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

	Organ and Final Body Weights	Appendix X
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Key to Abbreviations:

g = Grams

Note:

1. Values below 0.0001 could not be reported as % Final Body Weights (Adrenals and Pituitary), due to computer limitations.
2. The spleen weight for Animal No. 4618 and the pituitary and adrenal weights for Animal No. 1612 were post-fixative weights. These weights were considered acceptable for use in statistical evaluation.

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1101	599	22.4969	0.0376	10.2008	1.7365	0.0029	0.7874	2.2054	0.0037	1.0000	0.9843	0.0016	0.4463
1102	477	17.3507	0.0363	7.6196	1.7698	0.0037	0.7772	2.2771	0.0048	1.0000	0.7244	0.0015	0.3181
1103	557	17.9402	0.0322	9.2518	1.8797	0.0034	0.9694	1.9391	0.0035	1.0000	0.7820	0.0014	0.4033
1104	557	21.8720	0.0393	9.4422	1.9799	0.0036	0.8547	2.3164	0.0042	1.0000	0.8611	0.0015	0.3717
1105	624	24.3387	0.0390	10.6842	1.8736	0.0030	0.8225	2.2780	0.0036	1.0000	1.0077	0.0016	0.4424
1106	497	17.6080	0.0354	8.2138	1.8048	0.0036	0.8419	2.1437	0.0043	1.0000	0.8730	0.0018	0.4072
1107	591	22.3450	0.0378	9.4148	2.0658	0.0035	0.8704	2.3734	0.0040	1.0000	1.0079	0.0017	0.4247
1108	579	20.0368	0.0346	8.5183	2.0183	0.0035	0.8580	2.3522	0.0041	1.0000	0.8476	0.0015	0.3603
1109	543	18.0703	0.0333	8.0152	1.9552	0.0036	0.8672	2.2545	0.0042	1.0000	0.9155	0.0017	0.4061
1110	505	18.0754	0.0358	7.9379	1.4505	0.0029	0.6370	2.2771	0.0045	1.0000	0.7625	0.0015	0.3349
1111	537	17.4987	0.0326	7.8473	1.8269	0.0034	0.8193	2.2299	0.0042	1.0000	0.6286	0.0012	0.2819
1112	465	15.3730	0.0331	7.2072	1.5040	0.0032	0.7051	2.1330	0.0046	1.0000	0.6012	0.0013	0.2819
1113	603	18.5813	0.0308	8.2926	1.6984	0.0028	0.7580	2.2407	0.0037	1.0000	0.6665	0.0011	0.2975
1114	597	21.2016	0.0355	9.3929	2.2600	0.0038	1.0012	2.2572	0.0038	1.0000	0.7430	0.0012	0.3292
1115	538	18.8087	0.0350	8.7005	1.7791	0.0033	0.8230	2.1618	0.0040	1.0000	0.8450	0.0016	0.3909
1116	562	17.6882	0.0315	8.0288	1.8137	0.0032	0.8232	2.2031	0.0039	1.0000	0.7383	0.0013	0.3351
1117	552	20.4174	0.0370	9.8530	1.8782	0.0034	0.9064	2.0722	0.0038	1.0000	0.8183	0.0015	0.3949
1118	556	21.8913	0.0394	9.7079	1.9469	0.0035	0.8634	2.2550	0.0041	1.0000	0.8760	0.0016	0.3885
1119	492	17.4687	0.0355	8.4207	1.8637	0.0038	0.8984	2.0745	0.0042	1.0000	0.7677	0.0016	0.3701
1120	539	18.4923	0.0343	7.9953	1.7615	0.0033	0.7616	2.3129	0.0043	1.0000	0.8101	0.0015	0.3503
1121	560	17.7024	0.0316	8.1721	2.0748	0.0037	0.9578	2.1662	0.0039	1.0000	0.7416	0.0013	0.3424
1122	516	17.5563	0.0340	8.0100	1.6273	0.0032	0.7424	2.1918	0.0042	1.0000	0.9560	0.0019	0.4362
1123	614	22.7672	0.0371	9.6701	2.0858	0.0034	0.8859	2.3544	0.0038	1.0000	0.9658	0.0016	0.4102
1124	565	18.1313	0.0321	8.4391	1.6459	0.0029	0.7661	2.1485	0.0038	1.0000	0.8263	0.0015	0.3846
1125	545	19.7560	0.0363	8.7023	2.2022	0.0040	0.9700	2.2702	0.0042	1.0000	0.9005	0.0017	0.3967
1126	516	16.0478	0.0311	8.1952	1.9596	0.0038	1.0007	1.9582	0.0038	1.0000	0.7779	0.0015	0.3973

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2101	556	20.1218	0.0362	9.0346	1.8635	0.0034	0.8367	2.2272	0.0040	1.0000	0.8360	0.0015	0.3754
2102	579	19.7896	0.0342	9.8133	1.8599	0.0032	0.9223	2.0166	0.0035	1.0000	0.7383	0.0013	0.3661
2103	614	21.2093	0.0345	9.6851	1.8337	0.0030	0.8373	2.1899	0.0036	1.0000	0.7875	0.0013	0.3596
2104	526	18.9732	0.0361	9.2031	1.7804	0.0034	0.8636	2.0616	0.0039	1.0000	0.7326	0.0014	0.3554
2105	559	19.8291	0.0355	9.3371	1.6315	0.0029	0.7682	2.1237	0.0038	1.0000	0.6459	0.0012	0.3041
2106	574	21.1271	0.0368	9.1218	1.8828	0.0033	0.8129	2.3161	0.0040	1.0000	0.7689	0.0013	0.3320
2107	510	19.7781	0.0388	8.4594	2.0644	0.0041	0.8830	2.3380	0.0046	1.0000	0.6296	0.0012	0.2693
2108	640	21.6660	0.0339	9.9738	2.2090	0.0035	1.0169	2.1723	0.0034	1.0000	0.9569	0.0015	0.4405
2109	548	18.5960	0.0339	8.6097	1.8478	0.0034	0.8555	2.1599	0.0039	1.0000	0.8908	0.0016	0.4124
2110	571	17.4615	0.0306	8.1190	1.9725	0.0035	0.9171	2.1507	0.0038	1.0000	0.6207	0.0011	0.2886
2111	483	16.5504	0.0343	7.5284	1.5592	0.0032	0.7092	2.1984	0.0046	1.0000	0.7440	0.0015	0.3384
2112	564	19.1117	0.0339	8.7564	1.7965	0.0032	0.8231	2.1826	0.0039	1.0000	0.7828	0.0014	0.3587
2113	499	18.3221	0.0367	8.7365	1.6118	0.0032	0.7685	2.0972	0.0042	1.0000	0.7845	0.0016	0.3741
2114	534	20.7666	0.0389	9.9729	1.8102	0.0034	0.8693	2.0823	0.0039	1.0000	0.9001	0.0017	0.4323
2115	462	16.0110	0.0347	7.9235	1.6704	0.0036	0.8266	2.0207	0.0044	1.0000	0.6553	0.0014	0.3243
2116	521	17.4132	0.0334	8.6140	1.9578	0.0038	0.9685	2.0215	0.0039	1.0000	0.7630	0.0015	0.3774
2117	569	19.6346	0.0345	8.7451	1.8548	0.0033	0.8261	2.2452	0.0039	1.0000	0.9415	0.0017	0.4193
2118	588	19.0889	0.0325	8.6855	1.9981	0.0034	0.9091	2.1978	0.0037	1.0000	0.9020	0.0015	0.4104
2119	589	21.2031	0.0360	9.4328	2.1652	0.0037	0.9633	2.2478	0.0038	1.0000	0.8218	0.0014	0.3656
2120	606	23.3283	0.0385	10.9698	1.8685	0.0031	0.8786	2.1266	0.0035	1.0000	0.7940	0.0013	0.3734
2121	554	21.7166	0.0392	9.6932	1.9246	0.0035	0.8590	2.2404	0.0040	1.0000	0.7424	0.0013	0.3314
2122	545	20.0775	0.0369	7.9133	1.9299	0.0035	0.7606	2.5372	0.0047	1.0000	0.6573	0.0012	0.2591
2123	466	16.3209	0.0350	7.7380	1.9125	0.0041	0.9067	2.1092	0.0045	1.0000	0.6519	0.0014	0.3091
2124	464	14.8875	0.0321	7.0694	1.6304	0.0035	0.7742	2.1059	0.0045	1.0000	0.6591	0.0014	0.3130
2125	565	19.4861	0.0345	8.2300	1.8005	0.0032	0.7604	2.3677	0.0042	1.0000	0.7792	0.0014	0.3291
2126	535	17.1161	0.0320	7.8818	1.6223	0.0030	0.7471	2.1716	0.0041	1.0000	0.9869	0.0018	0.4545

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g			g		
3101	505	18.6666	0.0369	9.2565	1.7553	0.0035	0.8704	2.0166	0.0040	1.0000	0.5841	0.0012	0.2896
3102	606	24.8287	0.0410	12.0610	1.9585	0.0032	0.9514	2.0586	0.0034	1.0000	0.8936	0.0015	0.4341
3103	455	15.8455	0.0348	6.7310	1.6399	0.0036	0.6966	2.3541	0.0052	1.0000	0.5893	0.0013	0.2503
3104	589	20.7107	0.0352	9.4990	1.6533	0.0028	0.7583	2.1803	0.0037	1.0000	0.8859	0.0015	0.4063
3105	590	23.5471	0.0399	10.2844	1.8219	0.0031	0.7957	2.2896	0.0039	1.0000	0.7352	0.0012	0.3211
3106	576	22.1565	0.0384	9.6944	1.7024	0.0030	0.7449	2.2855	0.0040	1.0000	0.7490	0.0013	0.3277
3107	570	22.3535	0.0392	8.9723	2.0608	0.0036	0.8272	2.4914	0.0044	1.0000	0.7889	0.0014	0.3166
3108	551	20.5651	0.0373	9.0823	1.8193	0.0033	0.8035	2.2643	0.0041	1.0000	0.7884	0.0014	0.3482
3109	653	22.9446	0.0351	9.4617	2.2500	0.0034	0.9278	2.4250	0.0037	1.0000	0.9895	0.0015	0.4080
3110	654	24.6541	0.0377	10.3750	2.3495	0.0036	0.9887	2.3763	0.0036	1.0000	0.9922	0.0015	0.4175
3111	551	19.8857	0.0361	8.8240	2.0083	0.0036	0.8912	2.2536	0.0041	1.0000	0.6383	0.0012	0.2832
3112	444	16.3376	0.0368	8.3143	1.5640	0.0035	0.7959	1.9650	0.0044	1.0000	0.6918	0.0016	0.3521
3113	488	14.9928	0.0307	7.3765	1.5501	0.0032	0.7627	2.0325	0.0042	1.0000	0.6428	0.0013	0.3163
3114	564	23.1620	0.0410	9.5849	2.1121	0.0037	0.8740	2.4165	0.0043	1.0000	0.8977	0.0016	0.3715
3115	548	20.0596	0.0366	9.6930	1.8114	0.0033	0.8753	2.0695	0.0038	1.0000	1.0107	0.0018	0.4884
3116	477	20.1615	0.0423	8.8230	1.8872	0.0040	0.8259	2.2851	0.0048	1.0000	0.6132	0.0013	0.2683
3117	511	19.6514	0.0384	8.7855	1.9648	0.0038	0.8784	2.2368	0.0044	1.0000	0.8656	0.0017	0.3870
3118	534	20.0322	0.0375	8.4088	1.9689	0.0037	0.8265	2.3823	0.0045	1.0000	0.9238	0.0017	0.3878
3119	552	20.7954	0.0377	9.4229	1.5993	0.0029	0.7247	2.2069	0.0040	1.0000	0.9510	0.0017	0.4309
3120	577	20.8367	0.0361	9.1542	1.8459	0.0032	0.8110	2.2762	0.0039	1.0000	0.6895	0.0012	0.3029
3121	413	16.2763	0.0394	7.1281	1.6677	0.0040	0.7304	2.2834	0.0055	1.0000	0.8745	0.0021	0.3830
3122	590	21.7344	0.0369	9.7477	2.0580	0.0035	0.9230	2.2297	0.0038	1.0000	0.8059	0.0014	0.3614
3123	455	18.9083	0.0415	8.3216	1.8729	0.0041	0.8243	2.2722	0.0050	1.0000	0.8653	0.0019	0.3808
3124	574	21.4250	0.0373	9.2457	2.0255	0.0035	0.8741	2.3173	0.0040	1.0000	0.8356	0.0015	0.3606
3125	581	21.4224	0.0369	9.0279	2.0480	0.0035	0.8631	2.3729	0.0041	1.0000	0.7914	0.0014	0.3335
3126	590	19.9805	0.0339	8.4473	2.2077	0.0037	0.9334	2.3653	0.0040	1.0000	0.7815	0.0013	0.3304

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4101	448	22.6452	0.0505	11.3181	1.6632	0.0037	0.8313	2.0008	0.0045	1.0000	0.8539	0.0019	0.4268
4102	499	20.4322	0.0410	9.6342	1.5468	0.0031	0.7293	2.1208	0.0043	1.0000	0.8265	0.0017	0.3897
4103	494	20.5014	0.0415	9.7140	1.7128	0.0035	0.8116	2.1105	0.0043	1.0000	0.6210	0.0013	0.2942
4104	503	23.9835	0.0477	11.6600	1.8179	0.0036	0.8838	2.0569	0.0041	1.0000	0.7198	0.0014	0.3499
4105	583	30.0226	0.0515	12.9074	2.1158	0.0036	0.9096	2.3260	0.0040	1.0000	0.6194	0.0011	0.2663
4106	497	25.6682	0.0517	12.8238	2.0231	0.0041	1.0107	2.0016	0.0040	1.0000	1.1513	0.0023	0.5752
4107	508	22.7105	0.0447	9.8965	1.9963	0.0039	0.8699	2.2948	0.0045	1.0000	0.7114	0.0014	0.3100
4108	705	31.6509	0.0449	13.7948	2.0079	0.0028	0.8751	2.2944	0.0033	1.0000	1.0255	0.0015	0.4470
4109	519	21.0801	0.0406	9.4981	2.1060	0.0041	0.9489	2.2194	0.0043	1.0000	0.8559	0.0016	0.3856
4110	586	24.4324	0.0417	10.6515	1.9382	0.0033	0.8450	2.2938	0.0039	1.0000	1.0443	0.0018	0.4553
4111	497	21.4288	0.0432	9.9980	1.5624	0.0031	0.7290	2.1433	0.0043	1.0000	0.6935	0.0014	0.3236
4112	541	23.1628	0.0428	10.4785	1.8803	0.0035	0.8506	2.2105	0.0041	1.0000	0.8232	0.0015	0.3724
4113	580	22.9053	0.0395	10.6068	2.0420	0.0035	0.9456	2.1595	0.0037	1.0000	0.7913	0.0014	0.3664
4114	528	25.9721	0.0492	11.5145	1.7756	0.0034	0.7872	2.2556	0.0043	1.0000	0.9916	0.0019	0.4396
4115	495	20.7077	0.0418	9.5528	1.7945	0.0036	0.8278	2.1677	0.0044	1.0000	0.6441	0.0013	0.2971
4116	615	25.0162	0.0407	10.6661	1.9812	0.0032	0.8447	2.3454	0.0038	1.0000	1.0939	0.0018	0.4664
4117	576	24.3897	0.0424	10.5074	1.9831	0.0034	0.8543	2.3212	0.0040	1.0000	1.0366	0.0018	0.4466
4118	481	21.3675	0.0445	9.8878	1.8710	0.0039	0.8658	2.1610	0.0045	1.0000	0.7943	0.0017	0.3676
4119	521	23.3227	0.0447	10.2351	1.7277	0.0033	0.7582	2.2787	0.0044	1.0000	0.7651	0.0015	0.3358
4120	489	20.1541	0.0412	9.7978	1.6947	0.0035	0.8239	2.0570	0.0042	1.0000	0.5594	0.0011	0.2719
4121	579	27.0633	0.0468	11.6552	2.1460	0.0037	0.9242	2.3220	0.0040	1.0000	0.9047	0.0016	0.3896
4122	565	20.1866	0.0357	9.1301	2.0430	0.0036	0.9240	2.2110	0.0039	1.0000	0.7594	0.0013	0.3435
4123	497	18.9113	0.0381	8.5425	1.6533	0.0033	0.7468	2.2138	0.0045	1.0000	0.7253	0.0015	0.3276
4124	521	19.1858	0.0368	9.1010	1.8478	0.0035	0.8765	2.1081	0.0040	1.0000	0.8753	0.0017	0.4152
4125	544	18.9621	0.0349	8.8911	1.6300	0.0030	0.7643	2.1327	0.0039	1.0000	0.7875	0.0014	0.3693
4126	556	23.0650	0.0415	10.6531	1.8951	0.0034	0.8753	2.1651	0.0039	1.0000	1.0536	0.0019	0.4866

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			PROSTATE			SEM.VES & CO.GL.			ADRENALS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1101	599	4.2063	0.0070	1.9073	1.0680	0.0018	0.4843	2.0612	0.0034	0.9346	0.0565		0.0256
1102	477	3.4874	0.0073	1.5315	1.2228	0.0026	0.5370	1.7844	0.0037	0.7836	0.0480	0.0001	0.0211
1103	557	3.5507	0.0064	1.8311	0.7788	0.0014	0.4016	1.7295	0.0031	0.8919	0.0555		0.0286
1104	557	4.0250	0.0072	1.7376	1.1712	0.0021	0.5056	2.0297	0.0036	0.8762	0.0542		0.0234
1105	624	4.5647	0.0073	2.0038	1.2406	0.0020	0.5446	3.3534	0.0054	1.4721	0.0636	0.0001	0.0279
1106	497	3.7354	0.0075	1.7425	1.1854	0.0024	0.5530	2.2240	0.0045	1.0375	0.0492		0.0230
1107	591	4.2470	0.0072	1.7894	0.9744	0.0016	0.4106	2.1994	0.0037	0.9267	0.0616	0.0001	0.0260
1108	579	4.7543	0.0082	2.0212	0.8132	0.0014	0.3457	2.2609	0.0039	0.9612	0.0658	0.0001	0.0280
1109	543	4.4394	0.0082	1.9691	1.5941	0.0029	0.7071	1.6971	0.0031	0.7528	0.0618	0.0001	0.0274
1110	505	3.9755	0.0079	1.7459	1.0750	0.0021	0.4721	1.4629	0.0029	0.6424	0.0578	0.0001	0.0254
1111	537	3.9984	0.0074	1.7931	1.2924	0.0024	0.5796	2.3990	0.0045	1.0758	0.0473		0.0212
1112	465	3.4613	0.0074	1.6227	1.0549	0.0023	0.4946	1.9266	0.0041	0.9032	0.0696	0.0001	0.0326
1113	603	3.9703	0.0066	1.7719	1.0591	0.0018	0.4727	1.4521	0.0024	0.6481	0.0665	0.0001	0.0297
1114	597	4.2499	0.0071	1.8828	0.9802	0.0016	0.4343	1.6303	0.0027	0.7223	0.0665	0.0001	0.0295
1115	538	4.3165	0.0080	1.9967	1.2733	0.0024	0.5890	1.9783	0.0037	0.9151	0.0612	0.0001	0.0283
1116	562	4.1509	0.0074	1.8841	1.1329	0.0020	0.5142	2.0362	0.0036	0.9242	0.0635	0.0001	0.0288
1117	552	4.0972	0.0074	1.9772	1.2079	0.0022	0.5829	1.9835	0.0036	0.9572	0.0667	0.0001	0.0322
1118	556	4.8171	0.0087	2.1362	1.6201	0.0029	0.7184	1.8981	0.0034	0.8417	0.0649	0.0001	0.0288
1119	492	3.8518	0.0078	1.8567	1.2731	0.0026	0.6137	1.5906	0.0032	0.7667	0.0551	0.0001	0.0266
1120	539	3.9040	0.0072	1.6879	1.4309	0.0027	0.6187	1.8782	0.0035	0.8121	0.0679	0.0001	0.0294
1121	560	4.1908	0.0075	1.9346	1.4758	0.0026	0.6813	1.4753	0.0026	0.6811	0.0675	0.0001	0.0312
1122	516	4.0762	0.0079	1.8597	0.8706	0.0017	0.3972	1.9928	0.0039	0.9092	0.0567	0.0001	0.0259
1123	614	4.9230	0.0080	2.0910	1.4159	0.0023	0.6014	1.2505	0.0020	0.5311	0.0627	0.0001	0.0266
1124	565	4.3512	0.0077	2.0252	1.1701	0.0021	0.5446	2.2019	0.0039	1.0249	0.0537		0.0250
1125	545	4.5139	0.0083	1.9883	1.0672	0.0020	0.4701	1.5945	0.0029	0.7024	0.0612	0.0001	0.0270
1126	516	3.8840	0.0075	1.9835	1.1700	0.0023	0.5975	1.4480	0.0028	0.7395	0.0564	0.0001	0.0288

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			PROSTATE			SEM.VES & CO.GL.			ADRENALS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2101	556	4.4779	0.0081	2.0106	1.1174	0.0020	0.5017	1.3851	0.0025	0.6219	0.0700	0.0001	0.0314
2102	579	4.1038	0.0071	2.0350	1.1066	0.0019	0.5487	1.6852	0.0029	0.8357	0.0599	0.0001	0.0297
2103	614	4.6797	0.0076	2.1369	1.3751	0.0022	0.6279	1.6426	0.0027	0.7501	0.0717	0.0001	0.0327
2104	526	4.0664	0.0077	1.9724	1.2223	0.0023	0.5929	1.4200	0.0027	0.6888	0.0467		0.0227
2105	559	4.8856	0.0087	2.3005	1.0205	0.0018	0.4805	1.8345	0.0033	0.8638	0.0517		0.0243
2106	574	4.4309	0.0077	1.9131	1.0869	0.0019	0.4693	2.3741	0.0041	1.0250	0.0686	0.0001	0.0296
2107	510	4.3777	0.0086	1.8724	1.1549	0.0023	0.4940	2.1246	0.0042	0.9087	0.0675	0.0001	0.0289
2108	640	4.7480	0.0074	2.1857	1.5000	0.0023	0.6905	2.1262	0.0033	0.9788	0.0762	0.0001	0.0351
2109	548	4.7208	0.0086	2.1857	0.7230	0.0013	0.3347	2.1349	0.0039	0.9884	0.0591	0.0001	0.0274
2110	571	4.6469	0.0081	2.1606	1.4122	0.0025	0.6566	2.2549	0.0039	1.0484	0.0517		0.0240
2111	483	3.8152	0.0079	1.7354	1.0573	0.0022	0.4809	1.8771	0.0039	0.8538	0.0632	0.0001	0.0287
2112	564	4.6515	0.0082	2.1312	1.2630	0.0022	0.5787	2.6213	0.0046	1.2010	0.0634	0.0001	0.0290
2113	499	4.5001	0.0090	2.1458	1.0204	0.0020	0.4866	1.9769	0.0040	0.9426	0.0586	0.0001	0.0279
2114	534	4.5265	0.0085	2.1738	1.2454	0.0023	0.5981	2.3406	0.0044	1.1240	0.0554	0.0001	0.0266
2115	462	3.4813	0.0075	1.7228	1.0367	0.0022	0.5130	1.9428	0.0042	0.9614	0.0421		0.0208
2116	521	4.3772	0.0084	2.1653	1.4185	0.0027	0.7017	1.8070	0.0035	0.8939	0.0638	0.0001	0.0316
2117	569	4.6738	0.0082	2.0817	1.3681	0.0024	0.6093	2.2253	0.0039	0.9911	0.0640	0.0001	0.0285
2118	588	4.3735	0.0074	1.9899	1.2452	0.0021	0.5666	2.3289	0.0040	1.0597	0.0586		0.0267
2119	589	4.5452	0.0077	2.0221	1.1033	0.0019	0.4908	2.4633	0.0042	1.0959	0.0816	0.0001	0.0363
2120	606	5.6859	0.0094	2.6737	1.4088	0.0023	0.6625	2.2866	0.0038	1.0752	0.0642	0.0001	0.0302
2121	554	4.5755	0.0083	2.0423	1.6454	0.0030	0.7344	2.6839	0.0048	1.1980	0.0805	0.0001	0.0359
2122	545	4.8182	0.0088	1.8990	1.9178	0.0035	0.7559	2.8595	0.0053	1.1270	0.0480		0.0189
2123	466	4.2635	0.0092	2.0214	1.0095	0.0022	0.4786	1.4453	0.0031	0.6852	0.0560	0.0001	0.0266
2124	464	3.7797	0.0081	1.7948	1.2295	0.0026	0.5838	2.5036	0.0054	1.1889	0.0468	0.0001	0.0222
2125	565	4.4562	0.0079	1.8821	1.2158	0.0022	0.5135	2.2556	0.0040	0.9527	0.0520		0.0220
2126	535	4.0134	0.0075	1.8481	1.1953	0.0022	0.5504	2.5349	0.0047	1.1673	0.0563	0.0001	0.0259

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			PROSTATE			SEM.VES & CO.GL.			ADRENALS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3101	505	4.1235	0.0082	2.0448	1.1520	0.0023	0.5713	1.6567	0.0033	0.8215	0.0561	0.0001	0.0278
3102	606	5.2109	0.0086	2.5313	1.4190	0.0023	0.6893	1.4488	0.0024	0.7038	0.0564		0.0274
3103	455	4.1824	0.0092	1.7766	0.6522	0.0014	0.2770	1.5869	0.0035	0.6741	0.0545	0.0001	0.0232
3104	589	4.7041	0.0080	2.1575	1.3239	0.0022	0.6072	1.1756	0.0020	0.5392	0.0676	0.0001	0.0310
3105	590	4.8085	0.0082	2.1001	1.2794	0.0022	0.5588	1.7250	0.0029	0.7534	0.0767	0.0001	0.0335
3106	576	4.5433	0.0079	1.9879	1.4220	0.0025	0.6222	2.2817	0.0040	0.9983	0.0570		0.0249
3107	570	4.8676	0.0085	1.9538	1.1049	0.0019	0.4435	2.3269	0.0041	0.9340	0.0658	0.0001	0.0264
3108	551	4.1818	0.0076	1.8468	1.4262	0.0026	0.6299	2.1496	0.0039	0.9493	0.0515		0.0227
3109	653	5.3950	0.0083	2.2247	0.7679	0.0012	0.3167	2.4965	0.0038	1.0295	0.0722	0.0001	0.0298
3110	654	5.9091	0.0090	2.4867	1.9337	0.0030	0.8137	2.5826	0.0039	1.0868	0.0731	0.0001	0.0308
3111	551	4.8705	0.0088	2.1612	1.0905	0.0020	0.4839	2.0631	0.0037	0.9155	0.0712	0.0001	0.0316
3112	444	4.5179	0.0102	2.2992	0.9221	0.0021	0.4693	1.3343	0.0030	0.6790	0.0603	0.0001	0.0307
3113	488	3.9772	0.0081	1.9568	1.0819	0.0022	0.5323	1.9619	0.0040	0.9653	0.0878	0.0002	0.0432
3114	564	5.6269	0.0100	2.3285	1.8552	0.0033	0.7677	2.0870	0.0037	0.8636	0.0682	0.0001	0.0282
3115	548	5.2815	0.0096	2.5521	1.0961	0.0020	0.5296	2.0917	0.0038	1.0107	0.0766	0.0001	0.0370
3116	477	4.1612	0.0087	1.8210	1.3821	0.0029	0.6048	2.5337	0.0053	1.1088	0.0575	0.0001	0.0252
3117	511	5.4173	0.0106	2.4219	1.5140	0.0030	0.6769	1.9889	0.0039	0.8892	0.0444		0.0198
3118	534	5.7647	0.0108	2.4198	1.5728	0.0029	0.6602	2.4325	0.0046	1.0211	0.0758	0.0001	0.0318
3119	552	5.0320	0.0091	2.2801	1.2182	0.0022	0.5520	1.6546	0.0030	0.7497	0.0677	0.0001	0.0307
3120	577	4.8708	0.0084	2.1399	1.1332	0.0020	0.4978	2.6141	0.0045	1.1484	0.0694	0.0001	0.0305
3121	413	4.5890	0.0111	2.0097	1.1966	0.0029	0.5240	2.1794	0.0053	0.9545	0.0658	0.0002	0.0288
3122	590	5.1224	0.0087	2.2973	1.3923	0.0024	0.6244	2.4627	0.0042	1.1045	0.0530		0.0238
3123	455	4.2333	0.0093	1.8631	1.2058	0.0026	0.5307	2.0593	0.0045	0.9063	0.0810	0.0002	0.0356
3124	574	4.9341	0.0086	2.1292	2.0678	0.0036	0.8923	1.8365	0.0032	0.7925	0.0509		0.0220
3125	581	4.6554	0.0080	1.9619	1.3531	0.0023	0.5702	2.0738	0.0036	0.8740	0.0644	0.0001	0.0271
3126	590	4.7800	0.0081	2.0209	1.0694	0.0018	0.4521	1.6696	0.0028	0.7059	0.0705	0.0001	0.0298

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			PROSTATE			SEM.VES & CO.GL.			ADRENALS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4101	448	5.0960	0.0114	2.5470	1.1769	0.0026	0.5882	1.8013	0.0040	0.9003	0.0558	0.0001	0.0279
4102	499	4.3804	0.0088	2.0654	1.0180	0.0020	0.4800	1.9627	0.0039	0.9255	0.0632	0.0001	0.0298
4103	494	4.1029	0.0083	1.9440	1.4002	0.0028	0.6634	2.3184	0.0047	1.0985	0.0519	0.0001	0.0246
4104	503	4.3938	0.0087	2.1361	1.5685	0.0031	0.7626	1.7717	0.0035	0.8613	0.0595	0.0001	0.0289
4105	583	5.6067	0.0096	2.4104	1.3991	0.0024	0.6015	2.0324	0.0035	0.8738	0.0861	0.0001	0.0370
4106	497	5.7875	0.0117	2.8914	0.9847	0.0020	0.4920	1.6126	0.0032	0.8057	0.0672	0.0001	0.0336
4107	508	5.4077	0.0106	2.3565	1.5970	0.0031	0.6959	1.6599	0.0033	0.7233	0.0485		0.0211
4108	705	6.1193	0.0087	2.6671	1.3641	0.0019	0.5945	2.3660	0.0034	1.0312	0.0794	0.0001	0.0346
4109	519	4.7454	0.0091	2.1381	1.4917	0.0029	0.6721	1.9304	0.0037	0.8698	0.0608	0.0001	0.0274
4110	586	5.4969	0.0094	2.3964	1.0864	0.0019	0.4736	2.2278	0.0038	0.9712	0.0676	0.0001	0.0295
4111	497	4.2835	0.0086	1.9986	1.4906	0.0030	0.6955	2.7011	0.0054	1.2603	0.0629	0.0001	0.0293
4112	541	5.0288	0.0093	2.2750	1.5264	0.0028	0.6905	2.0419	0.0038	0.9237	0.0784	0.0001	0.0355
4113	580	5.1091	0.0088	2.3659	0.9484	0.0016	0.4392	2.0301	0.0035	0.9401	0.0765	0.0001	0.0354
4114	528	5.3039	0.0100	2.3514	1.5570	0.0029	0.6903	2.8529	0.0054	1.2648	0.0693	0.0001	0.0307
4115	495	4.6910	0.0095	2.1640	1.1085	0.0022	0.5114	1.6135	0.0033	0.7443	0.0617	0.0001	0.0285
4116	615	5.2602	0.0086	2.2428	0.8293	0.0013	0.3536	2.0170	0.0033	0.8600	0.0890	0.0001	0.0379
4117	576	6.0410	0.0105	2.6025	1.4123	0.0025	0.6084	2.4157	0.0042	1.0407	0.0766	0.0001	0.0330
4118	481	5.6253	0.0117	2.6031	1.2993	0.0027	0.6012	2.2644	0.0047	1.0478	0.0529	0.0001	0.0245
4119	521	4.5364	0.0087	1.9908	0.8537	0.0016	0.3746	1.9969	0.0038	0.8763	0.0641	0.0001	0.0281
4120	489	4.5255	0.0092	2.2000	1.0722	0.0022	0.5212	2.0281	0.0041	0.9860	0.0644	0.0001	0.0313
4121	579	5.7865	0.0100	2.4920	1.2369	0.0021	0.5327	1.9016	0.0033	0.8189	0.0640	0.0001	0.0276
4122	565	5.4250	0.0096	2.4536	1.4450	0.0026	0.6536	2.1615	0.0038	0.9776	0.0727	0.0001	0.0329
4123	497	4.4892	0.0090	2.0278	1.1215	0.0023	0.5066	2.2979	0.0046	1.0380	0.0481		0.0217
4124	521	4.9002	0.0094	2.3245	1.1005	0.0021	0.5220	2.4068	0.0046	1.1417	0.0608	0.0001	0.0288
4125	544	4.1831	0.0077	1.9614	1.1114	0.0020	0.5211	1.8960	0.0035	0.8890	0.0494		0.0232
4126	556	5.2085	0.0094	2.4057	1.3242	0.0024	0.6116	1.7605	0.0032	0.8131	0.0681	0.0001	0.0315

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	PITUITARY			TESTIS - LEFT			TESTIS - RIGHT			TESTES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1101	599	0.0110		0.0050	1.7645	0.0029	0.8001	1.8312	0.0031	0.8303	3.5882	0.0060	1.6270
1102	477	0.0118		0.0052	1.7934	0.0038	0.7876	1.8064	0.0038	0.7933	3.5923	0.0075	1.5776
1103	557	0.0120		0.0062	1.4750	0.0026	0.7607	1.5013	0.0027	0.7742	2.9738	0.0053	1.5336
1104	557	0.0134		0.0058	1.7818	0.0032	0.7692	1.7651	0.0032	0.7620	3.5431	0.0064	1.5296
1105	624	0.0106		0.0047	1.7245	0.0028	0.7570	1.7029	0.0027	0.7475	3.4204	0.0055	1.5015
1106	497	0.0112		0.0052	1.6909	0.0034	0.7888	1.6886	0.0034	0.7877	3.3758	0.0068	1.5748
1107	591	0.0136		0.0057	1.7510	0.0030	0.7378	1.8319	0.0031	0.7718	3.5762	0.0061	1.5068
1108	579	0.0119		0.0051	1.8143	0.0031	0.7713	1.8862	0.0033	0.8019	3.6942	0.0064	1.5705
1109	543	0.0194		0.0086	1.7904	0.0033	0.7941	1.7441	0.0032	0.7736	3.5347	0.0065	1.5678
1110	505	0.0146		0.0064	1.5886	0.0031	0.6976	1.6544	0.0033	0.7265	3.2310	0.0064	1.4189
1111	537	0.0099		0.0044	1.7359	0.0032	0.7785	1.9423	0.0036	0.8710	3.4527	0.0064	1.5484
1112	465	0.0117		0.0055	1.4832	0.0032	0.6954	1.4886	0.0032	0.6979	2.9822	0.0064	1.3981
1113	603	0.0132		0.0059	1.9013	0.0032	0.8485	1.7958	0.0030	0.8014	3.6872	0.0061	1.6456
1114	597	0.0131		0.0058	1.8663	0.0031	0.8268	1.8217	0.0031	0.8071	3.6793	0.0062	1.6300
1115	538	0.0108		0.0050	1.8260	0.0034	0.8447	1.8237	0.0034	0.8436	3.6344	0.0068	1.6812
1116	562	0.0133		0.0060	1.4645	0.0026	0.6647	1.4987	0.0027	0.6803	2.9560	0.0053	1.3417
1117	552	0.0101		0.0049	1.7221	0.0031	0.8310	1.6896	0.0031	0.8154	3.3724	0.0061	1.6274
1118	556	0.0134		0.0059	1.6177	0.0029	0.7174	1.6620	0.0030	0.7370	3.2739	0.0059	1.4518
1119	492	0.0188		0.0091	1.4923	0.0030	0.7194	1.4608	0.0030	0.7042	2.9471	0.0060	1.4206
1120	539	0.0148		0.0064	1.7535	0.0033	0.7581	1.6367	0.0030	0.7076	3.3853	0.0063	1.4637
1121	560	0.0209		0.0096	1.7030	0.0030	0.7862	1.6774	0.0030	0.7744	3.3743	0.0060	1.5577
1122	516	0.0117		0.0053	1.6916	0.0033	0.7718	1.8508	0.0036	0.8444	3.5399	0.0069	1.6151
1123	614	0.0150		0.0064	1.8917	0.0031	0.8035	1.9079	0.0031	0.8104	3.7928	0.0062	1.6109
1124	565	0.0118		0.0055	1.7233	0.0030	0.8021	1.7124	0.0030	0.7970	3.4275	0.0061	1.5953
1125	545	0.0058		0.0026	1.7806	0.0033	0.7843	1.8382	0.0034	0.8097	3.6032	0.0066	1.5872
1126	516	0.0111		0.0057	1.8977	0.0037	0.9691	1.8527	0.0036	0.9461	3.7335	0.0072	1.9066

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	PITUITARY			TESTIS - LEFT			TESTIS - RIGHT			TESTES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2101	556	0.0110		0.0049	1.7081	0.0031	0.7669	1.7503	0.0032	0.7859	3.4498	0.0062	1.5489
2102	579	0.0109		0.0054	1.8623	0.0032	0.9235	1.9177	0.0033	0.9510	3.7594	0.0065	1.8642
2103	614	0.0152		0.0069	1.9277	0.0031	0.8803	1.9160	0.0031	0.8749	3.8223	0.0062	1.7454
2104	526	0.0113		0.0055	1.5993	0.0030	0.7758	1.6490	0.0031	0.7999	3.2394	0.0062	1.5713
2105	559	0.0136		0.0064	1.6521	0.0030	0.7779	1.5373	0.0027	0.7239	3.1843	0.0057	1.4994
2106	574	0.0114		0.0049	1.6242	0.0028	0.7013	1.6630	0.0029	0.7180	3.2795	0.0057	1.4160
2107	510	0.0157		0.0067	1.6455	0.0032	0.7038	1.7139	0.0034	0.7331	3.3711	0.0066	1.4419
2108	640	0.0174		0.0080	1.7934	0.0028	0.8256	1.8351	0.0029	0.8448	3.6290	0.0057	1.6706
2109	548	0.0175		0.0081	1.7390	0.0032	0.8051	1.7229	0.0031	0.7977	3.5011	0.0064	1.6210
2110	571	0.0127		0.0059	1.5882	0.0028	0.7385	1.5906	0.0028	0.7396	3.1699	0.0056	1.4739
2111	483	0.0115		0.0052	1.5802	0.0033	0.7188	1.5930	0.0033	0.7246	3.1668	0.0066	1.4405
2112	564	0.0148		0.0068	1.7034	0.0030	0.7804	1.6564	0.0029	0.7589	3.3515	0.0059	1.5356
2113	499	0.0110		0.0052	1.6141	0.0032	0.7696	1.6435	0.0033	0.7837	3.2484	0.0065	1.5489
2114	534	0.0120		0.0058	1.9537	0.0037	0.9382	1.9598	0.0037	0.9412	3.9044	0.0073	1.8750
2115	462	0.0085		0.0042	1.6064	0.0035	0.7950	1.5877	0.0034	0.7857	3.1894	0.0069	1.5784
2116	521	0.0114		0.0056	1.6604	0.0032	0.8214	1.6867	0.0032	0.8344	3.3332	0.0064	1.6489
2117	569	0.0123		0.0055	1.7625	0.0031	0.7850	1.8050	0.0032	0.8039	3.5607	0.0063	1.5859
2118	588	0.0135		0.0061	1.8093	0.0031	0.8232	1.6689	0.0028	0.7594	3.4695	0.0059	1.5786
2119	589	0.0143		0.0064	1.9735	0.0034	0.8780	1.9826	0.0034	0.8820	3.9467	0.0067	1.7558
2120	606	0.0117		0.0055	1.8724	0.0031	0.8805	1.8317	0.0030	0.8613	3.6974	0.0061	1.7386
2121	554	0.0106		0.0047	1.8077	0.0033	0.8069	1.8327	0.0033	0.8180	3.6306	0.0066	1.6205
2122	545	0.0153		0.0060	1.7296	0.0032	0.6817	1.7525	0.0032	0.6907	3.4763	0.0064	1.3701
2123	466	0.0114		0.0054	1.4590	0.0031	0.6917	1.5552	0.0033	0.7373	3.0047	0.0065	1.4246
2124	464	0.0114		0.0054	1.7183	0.0037	0.8159	1.7473	0.0038	0.8297	3.4527	0.0074	1.6395
2125	565	0.0124		0.0052	1.7011	0.0030	0.7185	1.6952	0.0030	0.7160	3.3517	0.0059	1.4156
2126	535	0.0128		0.0059	1.8784	0.0035	0.8650	1.8765	0.0035	0.8641	3.7871	0.0071	1.7439

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	PITUITARY			TESTIS - LEFT			TESTIS - RIGHT			TESTES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3101	505	0.0101		0.0050	1.8875	0.0037	0.9360	1.8732	0.0037	0.9289	3.7519	0.0074	1.8605
3102	606	0.0126		0.0061	1.6271	0.0027	0.7904	1.7594	0.0029	0.8547	3.3753	0.0056	1.6396
3103	455	0.0099		0.0042	1.5377	0.0034	0.6532	1.6625	0.0037	0.7062	3.1989	0.0070	1.3589
3104	589	0.0105		0.0048	1.4905	0.0025	0.6836	1.4555	0.0025	0.6676	2.9437	0.0050	1.3501
3105	590	0.0159		0.0069	1.5986	0.0027	0.6982	1.6157	0.0027	0.7057	3.2127	0.0054	1.4032
3106	576	0.0128		0.0056	1.5952	0.0028	0.6980	1.6094	0.0028	0.7042	3.1966	0.0055	1.3986
3107	570	0.0120		0.0048	1.7814	0.0031	0.7150	1.6989	0.0030	0.6819	3.4769	0.0061	1.3956
3108	551	0.0086		0.0038	1.6464	0.0030	0.7271	1.6511	0.0030	0.7292	3.2920	0.0060	1.4539
3109	653	0.0164		0.0068	1.8159	0.0028	0.7488	1.7356	0.0027	0.7157	3.6163	0.0055	1.4913
3110	654	0.0201		0.0085	1.7860	0.0027	0.7516	1.8456	0.0028	0.7767	3.6323	0.0056	1.5286
3111	551	0.0137		0.0061	1.8297	0.0033	0.8119	1.7524	0.0032	0.7776	3.5806	0.0065	1.5888
3112	444	0.0100		0.0051	1.4246	0.0032	0.7250	1.4490	0.0033	0.7374	2.8638	0.0064	1.4574
3113	488	0.0095		0.0047	1.7931	0.0037	0.8822	1.7737	0.0036	0.8727	3.5311	0.0072	1.7373
3114	564	0.0147		0.0061	1.7568	0.0031	0.7270	1.9555	0.0035	0.8092	3.7045	0.0066	1.5330
3115	548	0.0125		0.0060	1.9226	0.0035	0.9290	1.9425	0.0035	0.9386	3.8594	0.0070	1.8649
3116	477	0.0083		0.0036	1.6221	0.0034	0.7099	1.6506	0.0035	0.7223	3.2802	0.0069	1.4355
3117	511	0.0119		0.0053	1.5392	0.0030	0.6881	1.5065	0.0029	0.6735	3.0426	0.0060	1.3602
3118	534	0.0089		0.0037	1.5217	0.0029	0.6388	1.6036	0.0030	0.6731	3.1364	0.0059	1.3165
3119	552	0.0127		0.0058	1.5775	0.0029	0.7148	1.5216	0.0028	0.6895	3.0893	0.0056	1.3998
3120	577	0.0129		0.0057	1.9207	0.0033	0.8438	1.9106	0.0033	0.8394	3.8181	0.0066	1.6774
3121	413	0.0125		0.0055	1.8589	0.0045	0.8141	1.7482	0.0042	0.7656	3.5833	0.0087	1.5693
3122	590	0.0108		0.0048	1.7832	0.0030	0.7997	1.8056	0.0031	0.8098	3.5840	0.0061	1.6074
3123	455	0.0125		0.0055	1.8098	0.0040	0.7965	1.7673	0.0039	0.7778	3.5693	0.0078	1.5709
3124	574	0.0147		0.0063	1.7264	0.0030	0.7450	1.7188	0.0030	0.7417	3.4319	0.0060	1.4810
3125	581	0.0099		0.0042	1.5450	0.0027	0.6511	1.5616	0.0027	0.6581	3.1228	0.0054	1.3160
3126	590	0.0161		0.0068	1.8278	0.0031	0.7728	1.8801	0.0032	0.7949	3.7087	0.0063	1.5680

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	PITUITARY			TESTIS - LEFT			TESTIS - RIGHT			TESTES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4101	448	0.0107		0.0053	1.5210	0.0034	0.7602	1.5673	0.0035	0.7833	3.0822	0.0069	1.5405
4102	499	0.0103		0.0049	1.8976	0.0038	0.8948	1.9003	0.0038	0.8960	3.8153	0.0077	1.7990
4103	494	0.0110		0.0052	1.6872	0.0034	0.7994	1.6875	0.0034	0.7996	3.3624	0.0068	1.5932
4104	503	0.0118		0.0057	1.7380	0.0035	0.8450	1.7735	0.0035	0.8622	3.5026	0.0070	1.7029
4105	583	0.0171		0.0074	1.8630	0.0032	0.8009	1.8459	0.0032	0.7936	3.7053	0.0064	1.5930
4106	497	0.0114		0.0057	1.3114	0.0026	0.6552	1.3418	0.0027	0.6704	2.6495	0.0053	1.3237
4107	508	0.0104		0.0045	1.5445	0.0030	0.6730	1.4878	0.0029	0.6483	3.0263	0.0060	1.3188
4108	705	0.0174		0.0076	1.6932	0.0024	0.7380	1.6843	0.0024	0.7341	3.3931	0.0048	1.4789
4109	519	0.0177		0.0080	1.9320	0.0037	0.8705	1.9545	0.0038	0.8806	3.8472	0.0074	1.7334
4110	586	0.0117		0.0051	1.6555	0.0028	0.7217	1.7355	0.0030	0.7566	3.3874	0.0058	1.4768
4111	497	0.0154		0.0072	1.6699	0.0034	0.7791	1.7555	0.0035	0.8191	3.4211	0.0069	1.5962
4112	541	0.0094		0.0043	1.9218	0.0036	0.8694	1.9237	0.0036	0.8703	3.8358	0.0071	1.7353
4113	580	0.0117		0.0054	1.7234	0.0030	0.7981	1.7117	0.0029	0.7926	3.4294	0.0059	1.5881
4114	528	0.0170		0.0075	1.7893	0.0034	0.7933	1.7306	0.0033	0.7672	3.5087	0.0066	1.5556
4115	495	0.0102		0.0047	1.6309	0.0033	0.7524	1.7019	0.0034	0.7851	3.3234	0.0067	1.5331
4116	615	0.0122		0.0052	1.8417	0.0030	0.7852	1.8638	0.0030	0.7947	3.6986	0.0060	1.5770
4117	576	0.0132		0.0057	1.5849	0.0028	0.6828	1.6600	0.0029	0.7151	3.2290	0.0056	1.3911
4118	481	0.0122		0.0056	1.6097	0.0034	0.7449	1.6744	0.0035	0.7748	3.2233	0.0067	1.4916
4119	521	0.0116		0.0051	1.7647	0.0034	0.7744	1.6740	0.0032	0.7346	3.4290	0.0066	1.5048
4120	489	0.0107		0.0052	1.8562	0.0038	0.9024	1.9649	0.0040	0.9552	3.8062	0.0078	1.8504
4121	579	0.0130		0.0056	1.6130	0.0028	0.6947	1.6212	0.0028	0.6982	3.2309	0.0056	1.3914
4122	565	0.0127		0.0057	1.6882	0.0030	0.7635	1.6905	0.0030	0.7646	3.3622	0.0060	1.5207
4123	497	0.0083		0.0037	1.6503	0.0033	0.7455	1.6578	0.0033	0.7488	3.2912	0.0066	1.4867
4124	521	0.0123		0.0058	1.8501	0.0036	0.8776	1.8700	0.0036	0.8871	3.7052	0.0071	1.7576
4125	544	0.0126		0.0059	1.6059	0.0030	0.7530	1.6345	0.0030	0.7664	3.2239	0.0059	1.5117
4126	556	0.0120		0.0055	1.9091	0.0034	0.8818	1.9667	0.0035	0.9084	3.8622	0.0069	1.7838

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT			EPIDIDYMIS RIGHT			EPIDIDYMIDES		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g		
1101	599	0.7932	0.0013	0.3597	0.7185	0.0012	0.3258	1.5059	0.0025	0.6828
1102	477	0.7354	0.0015	0.3230	0.7215	0.0015	0.3169	1.4489	0.0030	0.6363
1103	557	0.6849	0.0012	0.3532	0.6699	0.0012	0.3455	1.3380	0.0024	0.6900
1104	557	0.7628	0.0014	0.3293	0.7635	0.0014	0.3296	1.5183	0.0027	0.6555
1105	624	0.8623	0.0014	0.3785	1.0017	0.0016	0.4397	1.8579	0.0030	0.8156
1106	497	0.7157	0.0014	0.3339	0.6899	0.0014	0.3218	1.4034	0.0028	0.6547
1107	591	0.7264	0.0012	0.3061	0.8019	0.0014	0.3379	1.5191	0.0026	0.6401
1108	579	0.7157	0.0012	0.3043	0.7437	0.0013	0.3162	1.4468	0.0025	0.6151
1109	543	0.8584	0.0016	0.3807	0.8142	0.0015	0.3611	1.6657	0.0031	0.7388
1110	505	0.6933	0.0014	0.3045	0.7235	0.0014	0.3177	1.4078	0.0028	0.6182
1111	537	0.7655	0.0014	0.3433	0.8035	0.0015	0.3603	1.5693	0.0029	0.7038
1112	465	0.6155	0.0013	0.2886	0.6375	0.0014	0.2989	1.2436	0.0027	0.5830
1113	603	0.8270	0.0014	0.3691	0.7764	0.0013	0.3465	1.5952	0.0026	0.7119
1114	597	0.7250	0.0012	0.3212	0.7218	0.0012	0.3198	1.4267	0.0024	0.6321
1115	538	0.7593	0.0014	0.3512	0.7944	0.0015	0.3675	1.5476	0.0029	0.7159
1116	562	0.5846	0.0010	0.2654	0.5989	0.0011	0.2718	1.1733	0.0021	0.5326
1117	552	0.8234	0.0015	0.3974	0.7710	0.0014	0.3721	1.5895	0.0029	0.7671
1118	556	0.7127	0.0013	0.3161	0.6817	0.0012	0.3023	1.3914	0.0025	0.6170
1119	492	0.6076	0.0012	0.2929	0.6080	0.0012	0.2931	1.2049	0.0024	0.5808
1120	539	0.7311	0.0014	0.3161	0.6838	0.0013	0.2956	1.4067	0.0026	0.6082
1121	560	0.7071	0.0013	0.3264	0.6652	0.0012	0.3071	1.3619	0.0024	0.6287
1122	516	0.7908	0.0015	0.3608	0.7979	0.0015	0.3640	1.6780	0.0033	0.7656
1123	614	0.7809	0.0013	0.3317	0.8010	0.0013	0.3402	1.5756	0.0026	0.6692
1124	565	0.7315	0.0013	0.3405	0.7394	0.0013	0.3441	1.4603	0.0026	0.6797
1125	545	0.7693	0.0014	0.3389	0.7396	0.0014	0.3258	1.5010	0.0028	0.6612
1126	516	0.6981	0.0014	0.3565	0.6841	0.0013	0.3494	1.3734	0.0027	0.7014

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT			EPIDIDYMIS RIGHT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2101	556	0.7042	0.0013	0.3162	0.7148	0.0013	0.3209	1.4137	0.0025	0.6347
2102	579	0.9068	0.0016	0.4497	0.7079	0.0012	0.3510	1.6179	0.0028	0.8023
2103	614	0.7801	0.0013	0.3562	0.7916	0.0013	0.3615	1.5579	0.0025	0.7114
2104	526	0.6508	0.0012	0.3157	0.7248	0.0014	0.3516	1.3656	0.0026	0.6624
2105	559	0.7449	0.0013	0.3508	0.6990	0.0013	0.3291	1.4325	0.0026	0.6745
2106	574	0.7052	0.0012	0.3045	0.7708	0.0013	0.3328	1.4707	0.0026	0.6350
2107	510	0.7762	0.0015	0.3320	0.8223	0.0016	0.3517	1.6998	0.0033	0.7270
2108	640	0.7553	0.0012	0.3477	0.7767	0.0012	0.3575	1.5687	0.0025	0.7221
2109	548	0.7871	0.0014	0.3644	0.8526	0.0016	0.3947	1.6414	0.0030	0.7599
2110	571	0.6772	0.0012	0.3149	0.6609	0.0012	0.3073	1.3402	0.0023	0.6231
2111	483	0.7120	0.0015	0.3239	0.7036	0.0015	0.3201	1.4010	0.0029	0.6373
2112	564	0.6815	0.0012	0.3122	0.7134	0.0013	0.3269	1.3851	0.0025	0.6346
2113	499	0.6736	0.0013	0.3212	0.6958	0.0014	0.3318	1.3595	0.0027	0.6482
2114	534	0.8827	0.0017	0.4239	0.7825	0.0015	0.3758	1.6367	0.0031	0.7860
2115	462	0.7145	0.0015	0.3536	0.6785	0.0015	0.3358	1.3812	0.0030	0.6835
2116	521	0.7409	0.0014	0.3665	0.7285	0.0014	0.3604	1.4563	0.0028	0.7204
2117	569	0.8669	0.0015	0.3861	0.8440	0.0015	0.3759	1.6954	0.0030	0.7551
2118	588	0.6592	0.0011	0.2999	0.7010	0.0012	0.3190	1.3467	0.0023	0.6127
2119	589	0.7712	0.0013	0.3431	0.7941	0.0013	0.3533	1.5545	0.0026	0.6916
2120	606	0.7878	0.0013	0.3705	0.7694	0.0013	0.3618	1.5535	0.0026	0.7305
2121	554	0.7728	0.0014	0.3449	0.8187	0.0015	0.3654	1.5772	0.0028	0.7040
2122	545	0.8123	0.0015	0.3202	0.7959	0.0015	0.3137	1.5860	0.0029	0.6251
2123	466	0.6972	0.0015	0.3306	0.6623	0.0014	0.3140	1.2998	0.0028	0.6163
2124	464	0.8090	0.0017	0.3842	0.7776	0.0017	0.3692	1.5645	0.0034	0.7429
2125	565	0.7991	0.0014	0.3375	0.8573	0.0015	0.3621	1.6442	0.0029	0.6944
2126	535	0.9004	0.0017	0.4146	0.8653	0.0016	0.3985	1.7508	0.0033	0.8062

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT			EPIDIDYMIS RIGHT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3101	505	0.8293	0.0016	0.4112	0.7246	0.0014	0.3593	1.5372	0.0030	0.7623
3102	606	0.7320	0.0012	0.3556	0.8447	0.0014	0.4103	1.5647	0.0026	0.7601
3103	455	0.5418	0.0012	0.2302	0.6970	0.0015	0.2961	1.2362	0.0027	0.5251
3104	589	0.6877	0.0012	0.3154	0.6849	0.0012	0.3141	1.3684	0.0023	0.6276
3105	590	0.7198	0.0012	0.3144	0.6913	0.0012	0.3019	1.4095	0.0024	0.6156
3106	576	0.8407	0.0015	0.3678	0.8899	0.0015	0.3894	1.7279	0.0030	0.7560
3107	570	0.8440	0.0015	0.3388	0.8066	0.0014	0.3238	1.6418	0.0029	0.6590
3108	551	0.6876	0.0012	0.3037	0.7534	0.0014	0.3327	1.4355	0.0026	0.6340
3109	653	0.8204	0.0013	0.3383	0.7779	0.0012	0.3208	1.5964	0.0024	0.6583
3110	654	0.8300	0.0013	0.3493	0.7868	0.0012	0.3311	1.6132	0.0025	0.6789
3111	551	0.8089	0.0015	0.3589	0.7585	0.0014	0.3366	1.5616	0.0028	0.6929
3112	444	0.5309	0.0012	0.2702	0.5479	0.0012	0.2788	1.0724	0.0024	0.5458
3113	488	0.6899	0.0014	0.3394	0.7260	0.0015	0.3572	1.3806	0.0028	0.6793
3114	564	0.9790	0.0017	0.4051	0.9877	0.0018	0.4087	1.9231	0.0034	0.7958
3115	548	0.7783	0.0014	0.3761	0.7424	0.0014	0.3587	1.4932	0.0027	0.7215
3116	477	0.7750	0.0016	0.3392	0.7081	0.0015	0.3099	1.4337	0.0030	0.6274
3117	511	0.7306	0.0014	0.3266	0.6689	0.0013	0.2990	1.3827	0.0027	0.6182
3118	534	0.7788	0.0015	0.3269	0.7852	0.0015	0.3296	1.5251	0.0029	0.6402
3119	552	0.7140	0.0013	0.3235	0.6684	0.0012	0.3029	1.3639	0.0025	0.6180
3120	577	0.8059	0.0014	0.3541	0.8052	0.0014	0.3537	1.6056	0.0028	0.7054
3121	413	0.7526	0.0018	0.3296	0.7582	0.0018	0.3320	1.5051	0.0036	0.6591
3122	590	0.7330	0.0012	0.3287	0.8828	0.0015	0.3959	1.5688	0.0027	0.7036
3123	455	0.7772	0.0017	0.3420	0.7534	0.0017	0.3316	1.5877	0.0035	0.6988
3124	574	0.7859	0.0014	0.3391	0.7370	0.0013	0.3180	1.4937	0.0026	0.6446
3125	581	0.7082	0.0012	0.2985	0.7143	0.0012	0.3010	1.4160	0.0024	0.5967
3126	590	0.7310	0.0012	0.3091	1.4868	0.0025	0.6286	2.2032	0.0037	0.9315

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT			EPIDIDYMIS RIGHT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4101	448	0.6392	0.0014	0.3195	0.6086	0.0014	0.3042	1.2305	0.0027	0.6150
4102	499	0.7591	0.0015	0.3579	0.8147	0.0016	0.3841	1.5579	0.0031	0.7346
4103	494	0.6722	0.0014	0.3185	0.7586	0.0015	0.3594	1.4237	0.0029	0.6746
4104	503	0.7017	0.0014	0.3411	0.7066	0.0014	0.3435	1.4005	0.0028	0.6809
4105	583	0.6897	0.0012	0.2965	0.7579	0.0013	0.3258	1.4439	0.0025	0.6208
4106	497	1.1967	0.0024	0.5979	0.6188	0.0012	0.3092	1.8101	0.0036	0.9043
4107	508	0.7227	0.0014	0.3149	0.7106	0.0014	0.3097	1.4302	0.0028	0.6232
4108	705	0.6814	0.0010	0.2970	0.7731	0.0011	0.3370	1.5165	0.0022	0.6610
4109	519	0.7341	0.0014	0.3308	0.8152	0.0016	0.3673	1.5462	0.0030	0.6967
4110	586	0.7580	0.0013	0.3305	0.7807	0.0013	0.3404	1.5336	0.0026	0.6686
4111	497	0.7225	0.0015	0.3371	0.7365	0.0015	0.3436	1.4540	0.0029	0.6784
4112	541	0.7171	0.0013	0.3244	0.7479	0.0014	0.3383	1.4612	0.0027	0.6610
4113	580	0.7229	0.0012	0.3348	0.6938	0.0012	0.3213	1.4126	0.0024	0.6541
4114	528	0.8211	0.0016	0.3640	0.8334	0.0016	0.3695	1.6287	0.0031	0.7221
4115	495	0.6986	0.0014	0.3223	0.6675	0.0013	0.3079	1.3498	0.0027	0.6227
4116	615	0.8002	0.0013	0.3412	0.7951	0.0013	0.3390	1.5919	0.0026	0.6787
4117	576	0.7542	0.0013	0.3249	0.7388	0.0013	0.3183	1.4843	0.0026	0.6395
4118	481	0.6901	0.0014	0.3193	0.6610	0.0014	0.3059	1.3403	0.0028	0.6202
4119	521	0.6162	0.0012	0.2704	0.6526	0.0013	0.2864	1.2600	0.0024	0.5529
4120	489	0.7363	0.0015	0.3579	0.7389	0.0015	0.3592	1.4702	0.0030	0.7147
4121	579	0.7510	0.0013	0.3234	0.7664	0.0013	0.3301	1.5115	0.0026	0.6509
4122	565	0.7386	0.0013	0.3341	0.7209	0.0013	0.3261	1.4522	0.0026	0.6568
4123	497	0.6835	0.0014	0.3087	0.6681	0.0013	0.3018	1.3388	0.0027	0.6048
4124	521	0.6074	0.0012	0.2881	0.6461	0.0012	0.3065	1.2516	0.0024	0.5937
4125	544	0.7127	0.0013	0.3342	0.6998	0.0013	0.3281	1.4105	0.0026	0.6614
4126	556	0.8231	0.0015	0.3802	0.8350	0.0015	0.3857	1.6488	0.0030	0.7615

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1601	366	16.9000	0.0462	9.0196	1.5379	0.0042	0.8208	1.8737	0.0051	1.0000	0.7028	0.0019	0.3751
1602	338	17.1594	0.0508	8.5087	1.6602	0.0049	0.8232	2.0167	0.0060	1.0000	0.7058	0.0021	0.3500
1603	325	13.8595	0.0427	6.9076	1.6197	0.0050	0.8073	2.0064	0.0062	1.0000	0.5891	0.0018	0.2936
1604	322	14.3477	0.0446	6.8384	1.4311	0.0044	0.6821	2.0981	0.0065	1.0000	0.6297	0.0020	0.3001
1605	302	13.3896	0.0444	6.6908	1.6725	0.0055	0.8357	2.0012	0.0066	1.0000	0.6038	0.0020	0.3017
1607	317	16.2972	0.0514	8.0803	1.6191	0.0051	0.8028	2.0169	0.0064	1.0000	0.5439	0.0017	0.2697
1608	302	14.2657	0.0472	7.0160	1.4188	0.0047	0.6978	2.0333	0.0067	1.0000	0.5608	0.0019	0.2758
1610	292	13.0825	0.0448	7.1618	1.8050	0.0062	0.9881	1.8267	0.0063	1.0000	0.5888	0.0020	0.3223
1612	331	17.4491	0.0527	9.0791	1.4773	0.0045	0.7687	1.9219	0.0058	1.0000	0.5847	0.0018	0.3042
1613	343	13.2106	0.0386	6.6083	1.5485	0.0045	0.7746	1.9991	0.0058	1.0000	0.6188	0.0018	0.3095
1614	365	16.2827	0.0446	8.2716	1.6177	0.0044	0.8218	1.9685	0.0054	1.0000	0.6193	0.0017	0.3146
1615	333	15.6408	0.0469	7.4569	1.3670	0.0041	0.6517	2.0975	0.0063	1.0000	0.5154	0.0015	0.2457
1616	354	16.1120	0.0455	7.7618	1.4416	0.0041	0.6945	2.0758	0.0059	1.0000	0.6538	0.0018	0.3150
1617	360	17.6693	0.0491	8.6428	1.4693	0.0041	0.7187	2.0444	0.0057	1.0000	0.5560	0.0015	0.2720
1618	350	14.5571	0.0416	7.5735	1.4744	0.0042	0.7671	1.9221	0.0055	1.0000	0.7976	0.0023	0.4150
1619	338	14.8235	0.0438	7.7282	1.3710	0.0041	0.7148	1.9181	0.0057	1.0000	0.6182	0.0018	0.3223
1620	337	12.9883	0.0385	6.5624	1.3887	0.0041	0.7016	1.9792	0.0059	1.0000	0.6213	0.0018	0.3139
1621	340	16.3011	0.0480	8.4751	1.5557	0.0046	0.8088	1.9234	0.0057	1.0000	0.5550	0.0016	0.2886
1622	305	11.1946	0.0367	6.2845	1.3847	0.0045	0.7774	1.7813	0.0058	1.0000	0.4719	0.0015	0.2649
1623	283	12.4410	0.0440	6.0311	1.1830	0.0042	0.5735	2.0628	0.0073	1.0000	0.6029	0.0021	0.2923
1624	345	12.3195	0.0357	6.1413	1.4079	0.0041	0.7018	2.0060	0.0058	1.0000	0.5646	0.0016	0.2815
1626	321	14.9295	0.0465	8.3438	1.5606	0.0049	0.8722	1.7893	0.0056	1.0000	0.5625	0.0018	0.3144

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g			g		
2601	297	12.2946	0.0414	6.3169	1.6282	0.0055	0.8366	1.9463	0.0066	1.0000	0.5967	0.0020	0.3066
2602	360	17.1762	0.0477	8.6200	1.6160	0.0045	0.8110	1.9926	0.0055	1.0000	0.6353	0.0018	0.3188
2603	347	15.4312	0.0445	7.7404	1.5497	0.0045	0.7773	1.9936	0.0057	1.0000	0.6945	0.0020	0.3484
2604	370	16.5631	0.0447	8.7469	1.5942	0.0043	0.8419	1.8936	0.0051	1.0000	0.9121	0.0025	0.4817
2605	288	13.2605	0.0461	6.8314	1.4490	0.0050	0.7465	1.9411	0.0067	1.0000	0.8560	0.0030	0.4410
2606	337	16.1854	0.0480	7.8884	1.4562	0.0043	0.7097	2.0518	0.0061	1.0000	0.4727	0.0014	0.2304
2607	344	14.5839	0.0424	6.8948	1.5973	0.0046	0.7552	2.1152	0.0061	1.0000	0.5837	0.0017	0.2760
2608	328	13.9150	0.0424	7.2678	1.6523	0.0050	0.8630	1.9146	0.0058	1.0000	0.5288	0.0016	0.2762
2610	298	12.9005	0.0433	6.6048	1.3091	0.0044	0.6702	1.9532	0.0066	1.0000	0.4894	0.0016	0.2506
2611	331	14.3545	0.0434	7.1751	1.5290	0.0046	0.7643	2.0006	0.0061	1.0000	0.6119	0.0019	0.3059
2612	325	11.8853	0.0365	6.1255	1.3720	0.0042	0.7071	1.9403	0.0060	1.0000	0.5053	0.0016	0.2604
2613	376	13.0996	0.0348	6.5452	1.5287	0.0041	0.7638	2.0014	0.0053	1.0000	0.7262	0.0019	0.3628
2614	333	14.7575	0.0444	7.1524	1.4631	0.0044	0.7091	2.0633	0.0062	1.0000	0.6759	0.0020	0.3276
2615	336	14.6265	0.0435	7.4808	1.4514	0.0043	0.7423	1.9552	0.0058	1.0000	0.5698	0.0017	0.2914
2616	307	14.5832	0.0474	7.1814	1.5159	0.0049	0.7465	2.0307	0.0066	1.0000	0.6026	0.0020	0.2967
2617	314	13.0325	0.0415	6.7512	1.3608	0.0043	0.7049	1.9304	0.0061	1.0000	0.5276	0.0017	0.2733
2618	305	10.8779	0.0357	5.8417	1.2815	0.0042	0.6882	1.8621	0.0061	1.0000	0.5897	0.0019	0.3167
2619	368	17.5583	0.0477	8.5889	1.7574	0.0048	0.8597	2.0443	0.0056	1.0000	0.7025	0.0019	0.3436
2620	339	17.3908	0.0514	9.0347	1.5069	0.0045	0.7828	1.9249	0.0057	1.0000	0.5815	0.0017	0.3021
2621	302	12.1020	0.0401	6.1830	1.4506	0.0048	0.7411	1.9573	0.0065	1.0000	0.7277	0.0024	0.3718
2622	346	13.4707	0.0389	6.9440	1.6386	0.0047	0.8447	1.9399	0.0056	1.0000	0.6321	0.0018	0.3258
2623	360	16.9612	0.0471	7.8684	1.5746	0.0044	0.7305	2.1556	0.0060	1.0000	0.5295	0.0015	0.2456
2624	370	19.4143	0.0525	9.3423	1.6293	0.0044	0.7840	2.0781	0.0056	1.0000	0.5755	0.0016	0.2769
2625	319	15.1611	0.0476	7.1283	1.4443	0.0045	0.6791	2.1269	0.0067	1.0000	0.6836	0.0021	0.3214
2626	326	12.7324	0.0390	6.3790	1.4997	0.0046	0.7514	1.9960	0.0061	1.0000	0.6713	0.0021	0.3363

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3601	300	13.7018	0.0456	7.2054	1.3450	0.0045	0.7073	1.9016	0.0063	1.0000	0.5230	0.0017	0.2750
3602	315	15.9483	0.0506	7.6436	1.5531	0.0049	0.7444	2.0865	0.0066	1.0000	0.4716	0.0015	0.2260
3603	349	16.1826	0.0464	7.6535	1.3732	0.0039	0.6495	2.1144	0.0061	1.0000	0.5895	0.0017	0.2788
3604	310	15.1407	0.0488	7.7170	1.2840	0.0041	0.6544	1.9620	0.0063	1.0000	0.5376	0.0017	0.2740
3606	294	13.3225	0.0453	6.3768	1.6150	0.0055	0.7730	2.0892	0.0071	1.0000	0.5310	0.0018	0.2542
3607	320	16.8448	0.0527	8.2423	1.5087	0.0047	0.7382	2.0437	0.0064	1.0000	0.5538	0.0017	0.2710
3608	363	18.4690	0.0508	8.8849	1.6324	0.0045	0.7853	2.0787	0.0057	1.0000	0.5550	0.0015	0.2670
3609	381	17.8420	0.0469	8.8083	1.7670	0.0046	0.8723	2.0256	0.0053	1.0000	0.6141	0.0016	0.3032
3610	313	14.4157	0.0460	7.6205	1.4714	0.0047	0.7778	1.8917	0.0060	1.0000	0.6181	0.0020	0.3267
3611	295	14.0727	0.0477	7.6209	1.3261	0.0045	0.7181	1.8466	0.0063	1.0000	0.4988	0.0017	0.2701
3612	311	13.1577	0.0423	7.1219	1.2816	0.0041	0.6937	1.8475	0.0059	1.0000	0.5273	0.0017	0.2854
3613	307	11.8865	0.0387	5.8707	1.4285	0.0047	0.7055	2.0247	0.0066	1.0000	0.5110	0.0017	0.2524
3614	361	16.8787	0.0468	8.2496	1.4689	0.0041	0.7179	2.0460	0.0057	1.0000	0.5507	0.0015	0.2692
3615	321	12.7638	0.0398	6.6271	1.7024	0.0053	0.8839	1.9260	0.0060	1.0000	0.6345	0.0020	0.3294
3616	365	16.2870	0.0446	7.4636	1.7971	0.0049	0.8235	2.1822	0.0060	1.0000	0.7012	0.0019	0.3213
3617	328	12.2610	0.0374	6.3358	1.4370	0.0044	0.7426	1.9352	0.0059	1.0000	0.5648	0.0017	0.2919
3619	330	14.8209	0.0450	7.1609	1.5547	0.0047	0.7512	2.0697	0.0063	1.0000	0.6226	0.0019	0.3008
3620	351	14.8066	0.0422	7.2185	1.6155	0.0046	0.7876	2.0512	0.0058	1.0000	0.5911	0.0017	0.2882
3621	327	11.6197	0.0355	6.4052	1.3601	0.0042	0.7497	1.8141	0.0055	1.0000	0.7289	0.0022	0.4018
3622	333	12.9189	0.0389	6.3297	1.7158	0.0052	0.8407	2.0410	0.0061	1.0000	0.5684	0.0017	0.2785
3623	301	14.0350	0.0467	7.1088	1.3249	0.0044	0.6711	1.9743	0.0066	1.0000	0.6308	0.0021	0.3195
3624	331	12.5842	0.0380	6.3371	1.2659	0.0038	0.6375	1.9858	0.0060	1.0000	0.5036	0.0015	0.2536
3625	339	15.6310	0.0462	8.4278	1.6652	0.0049	0.8978	1.8547	0.0055	1.0000	0.7669	0.0023	0.4135
3626	282	10.8168	0.0384	5.8749	1.0756	0.0038	0.5842	1.8412	0.0065	1.0000	0.5099	0.0018	0.2769

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	LIVER			LUNGS			BRAIN			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4601	344	14.7231	0.0429	7.1656	1.4189	0.0041	0.6906	2.0547	0.0060	1.0000	0.5134	0.0015	0.2499
4603	384	16.9627	0.0442	8.0979	1.6167	0.0042	0.7718	2.0947	0.0055	1.0000	0.6521	0.0017	0.3113
4604	324	12.9853	0.0401	6.9990	1.3727	0.0042	0.7399	1.8553	0.0057	1.0000	0.5276	0.0016	0.2844
4605	333	17.8860	0.0537	9.2914	1.5677	0.0047	0.8144	1.9250	0.0058	1.0000	0.4710	0.0014	0.2447
4606	311	16.7687	0.0540	8.7565	1.9287	0.0062	1.0072	1.9150	0.0062	1.0000	0.5634	0.0018	0.2942
4607	352	12.1121	0.0344	6.0960	1.5882	0.0045	0.7993	1.9869	0.0056	1.0000	0.5451	0.0015	0.2743
4608	309	14.3377	0.0464	7.2457	1.4474	0.0047	0.7315	1.9788	0.0064	1.0000	0.5877	0.0019	0.2970
4610	329	17.1074	0.0520	8.9826	1.6672	0.0051	0.8754	1.9045	0.0058	1.0000	0.6648	0.0020	0.3491
4611	313	14.6157	0.0467	7.4703	1.6004	0.0051	0.8180	1.9565	0.0063	1.0000	0.6476	0.0021	0.3310
4612	337	15.3616	0.0456	7.5822	1.7663	0.0052	0.8718	2.0260	0.0060	1.0000	0.5428	0.0016	0.2679
4613	348	19.4182	0.0559	10.4332	1.4658	0.0042	0.7876	1.8612	0.0054	1.0000	0.5551	0.0016	0.2982
4614	356	16.1223	0.0453	8.1525	1.5402	0.0043	0.7788	1.9776	0.0056	1.0000	0.6220	0.0017	0.3145
4615	323	14.1838	0.0439	6.6307	1.6212	0.0050	0.7579	2.1391	0.0066	1.0000	0.5813	0.0018	0.2717
4616	299	12.0491	0.0404	6.7419	1.2617	0.0042	0.7060	1.7872	0.0060	1.0000	0.5082	0.0017	0.2844
4618	345	15.4029	0.0447	7.9087	1.4661	0.0043	0.7528	1.9476	0.0056	1.0000	0.5757	0.0017	0.2956
4619	301	12.3782	0.0412	5.8947	1.5124	0.0050	0.7202	2.0999	0.0070	1.0000	0.5657	0.0019	0.2694
4620	296	17.7688	0.0599	10.2114	1.3101	0.0044	0.7529	1.7401	0.0059	1.0000	0.6073	0.0020	0.3490
4621	352	15.3541	0.0436	7.7605	1.4311	0.0041	0.7233	1.9785	0.0056	1.0000	0.4879	0.0014	0.2466
4622	331	16.0324	0.0485	8.0776	1.6045	0.0049	0.8084	1.9848	0.0060	1.0000	0.6023	0.0018	0.3035
4623	339	17.9465	0.0529	8.9540	1.5864	0.0047	0.7915	2.0043	0.0059	1.0000	0.5618	0.0017	0.2803
4624	323	14.8182	0.0458	7.7110	1.5610	0.0048	0.8123	1.9217	0.0059	1.0000	0.4437	0.0014	0.2309
4625	329	16.4085	0.0499	8.2779	1.3528	0.0041	0.6825	1.9822	0.0060	1.0000	0.6371	0.0019	0.3214
4626	365	15.6556	0.0429	7.9165	1.5665	0.0043	0.7921	1.9776	0.0054	1.0000	0.5642	0.0015	0.2853

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			UTERUS/OVIDUCTS			ADRENALS			PITUITARY		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1601	366	3.0343	0.0083	1.6194	0.4694	0.0013	0.2505	0.0697	0.0002	0.0372	0.0135		0.0072
1602	338	2.9768	0.0088	1.4761	0.6468	0.0019	0.3207	0.0618	0.0002	0.0306	0.0116		0.0058
1603	325	2.8895	0.0089	1.4401	0.9024	0.0028	0.4498	0.0812	0.0003	0.0405	0.0134		0.0067
1604	322	3.0085	0.0094	1.4339	0.7494	0.0023	0.3572	0.0871	0.0003	0.0415	0.0179		0.0085
1605	302	2.9524	0.0098	1.4753	0.9546	0.0032	0.4770	0.0772	0.0003	0.0386	0.0174		0.0087
1607	317	2.7007	0.0085	1.3390	0.6787	0.0021	0.3365	0.0658	0.0002	0.0326	0.0179		0.0089
1608	302	2.6964	0.0089	1.3261	0.3925	0.0013	0.1930	0.0633	0.0002	0.0311	0.0157		0.0077
1610	292	3.0723	0.0105	1.6819	0.6482	0.0022	0.3548	0.0799	0.0003	0.0437	0.0140		0.0077
1612	331	2.6154	0.0079	1.3608	0.5582	0.0017	0.2904	0.0948	0.0003	0.0493	0.0192		0.0100
1613	343	2.5417	0.0074	1.2714	0.5483	0.0016	0.2743	0.0715	0.0002	0.0358	0.0153		0.0077
1614	365	2.7864	0.0076	1.4155	0.4036	0.0011	0.2050	0.0870	0.0002	0.0442	0.0164		0.0083
1615	333	2.8558	0.0086	1.3615	0.7238	0.0022	0.3451	0.0854	0.0003	0.0407	0.0135		0.0064
1616	354	3.1210	0.0088	1.5035	0.4668	0.0013	0.2249	0.0644	0.0002	0.0310	0.0153		0.0074
1617	360	2.6837	0.0075	1.3127	0.4706	0.0013	0.2302	0.0744	0.0002	0.0364	0.0175		0.0086
1618	350	2.4415	0.0070	1.2702	0.6037	0.0017	0.3141	0.0788	0.0002	0.0410	0.0151		0.0079
1619	338	2.6159	0.0077	1.3638	0.5391	0.0016	0.2811	0.0857	0.0003	0.0447	0.0196		0.0102
1620	337	2.6472	0.0079	1.3375	0.5836	0.0017	0.2949	0.0841	0.0002	0.0425	0.0111		0.0056
1621	340	2.9104	0.0086	1.5132	0.6346	0.0019	0.3299	0.0683	0.0002	0.0355	0.0181		0.0094
1622	305	2.2443	0.0074	1.2599	0.8866	0.0029	0.4977	0.0574	0.0002	0.0322	0.0112		0.0063
1623	283	2.3020	0.0081	1.1160	0.4252	0.0015	0.2061	0.0581	0.0002	0.0282	0.0115		0.0056
1624	345	2.5295	0.0073	1.2610	0.4963	0.0014	0.2474	0.0761	0.0002	0.0379	0.0137		0.0068
1626	321	2.5395	0.0079	1.4193	0.5508	0.0017	0.3078	0.0636	0.0002	0.0355	0.0142		0.0079

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			UTERUS/OVIDUCTS			ADRENALS			PITUITARY		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2601	297	2.5749	0.0087	1.3230	0.6460	0.0022	0.3319	0.0745	0.0003	0.0383	0.0159		0.0082
2602	360	2.9032	0.0081	1.4570	0.5472	0.0015	0.2746	0.0698	0.0002	0.0350	0.0142		0.0071
2603	347	3.0304	0.0087	1.5201	0.4789	0.0014	0.2402	0.0704	0.0002	0.0353	0.0160		0.0080
2604	370	2.9734	0.0080	1.5702	0.7324	0.0020	0.3868	0.0830	0.0002	0.0438	0.0159		0.0084
2605	288	2.5588	0.0089	1.3182	0.6754	0.0023	0.3479	0.0737	0.0003	0.0380	0.0089		0.0046
2606	337	2.8262	0.0084	1.3774	0.3787	0.0011	0.1846	0.0691	0.0002	0.0337	0.0170		0.0083
2607	344	3.1661	0.0092	1.4968	0.5463	0.0016	0.2583	0.0839	0.0002	0.0397	0.0171		0.0081
2608	328	2.7648	0.0084	1.4441	0.4401	0.0013	0.2299	0.0733	0.0002	0.0383	0.0188		0.0098
2610	298	2.4279	0.0082	1.2430	0.5188	0.0017	0.2656	0.0630	0.0002	0.0323	0.0122		0.0062
2611	331	2.8418	0.0086	1.4205	0.5750	0.0017	0.2874	0.0826	0.0002	0.0413	0.0176		0.0088
2612	325	2.4839	0.0076	1.2802	0.5132	0.0016	0.2645	0.0682	0.0002	0.0351	0.0159		0.0082
2613	376	2.8679	0.0076	1.4329	0.4963	0.0013	0.2480	0.0704	0.0002	0.0352	0.0172		0.0086
2614	333	2.6829	0.0081	1.3003	0.8212	0.0025	0.3980	0.0675	0.0002	0.0327	0.0132		0.0064
2615	336	2.7067	0.0081	1.3844	0.6200	0.0018	0.3171	0.1085	0.0003	0.0555	0.0145		0.0074
2616	307	2.7503	0.0089	1.3544	0.9735	0.0032	0.4794	0.0837	0.0003	0.0412	0.0165		0.0081
2617	314	2.6290	0.0084	1.3619	0.5247	0.0017	0.2718	0.0572	0.0002	0.0296	0.0191		0.0099
2618	305	2.6969	0.0088	1.4483	1.0571	0.0035	0.5677	0.0589	0.0002	0.0316	0.0126		0.0068
2619	368	3.1145	0.0085	1.5235	0.5074	0.0014	0.2482	0.0755	0.0002	0.0369	0.0162		0.0079
2620	339	3.1701	0.0094	1.6469	0.4453	0.0013	0.2313	0.0692	0.0002	0.0359	0.0123		0.0064
2621	302	2.4061	0.0080	1.2293	0.3838	0.0013	0.1961	0.0798	0.0003	0.0408	0.0122		0.0062
2622	346	2.7585	0.0080	1.4220	0.4235	0.0012	0.2183	0.0577	0.0002	0.0297	0.0161		0.0083
2623	360	3.2073	0.0089	1.4879	0.5148	0.0014	0.2388	0.0763	0.0002	0.0354	0.0161		0.0075
2624	370	3.1926	0.0086	1.5363	0.5307	0.0014	0.2554	0.0797	0.0002	0.0384	0.0155		0.0075
2625	319	2.7531	0.0086	1.2944	0.9071	0.0028	0.4265	0.0751	0.0002	0.0353	0.0151		0.0071
2626	326	2.5971	0.0080	1.3012	0.5406	0.0017	0.2708	0.0746	0.0002	0.0374	0.0160		0.0080

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			UTERUS/OVIDUCTS			ADRENALS			PITUITARY		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3601	300	2.8122	0.0094	1.4789	1.0373	0.0035	0.5455	0.0701	0.0002	0.0369	0.0135		0.0071
3602	315	2.8444	0.0090	1.3632	0.4265	0.0014	0.2044	0.0712	0.0002	0.0341	0.0178		0.0085
3603	349	2.9393	0.0084	1.3901	0.4636	0.0013	0.2193	0.0679	0.0002	0.0321	0.0125		0.0059
3604	310	2.7320	0.0088	1.3925	0.6660	0.0021	0.3394	0.0641	0.0002	0.0327	0.0129		0.0066
3606	294	2.8206	0.0096	1.3501	0.6090	0.0021	0.2915	0.0696	0.0002	0.0333	0.0222		0.0106
3607	320	2.8169	0.0088	1.3783	0.7212	0.0023	0.3529	0.0744	0.0002	0.0364	0.0127		0.0062
3608	363	2.8951	0.0080	1.3927	0.4983	0.0014	0.2397	0.0584	0.0002	0.0281	0.0163		0.0078
3609	381	2.9798	0.0078	1.4711	0.5298	0.0014	0.2616	0.0772	0.0002	0.0381	0.0173		0.0085
3610	313	2.7349	0.0087	1.4457	0.6832	0.0022	0.3612	0.0679	0.0002	0.0359	0.0185		0.0098
3611	295	2.5032	0.0085	1.3556	0.4720	0.0016	0.2556	0.0583	0.0002	0.0316	0.0123		0.0067
3612	311	2.5426	0.0082	1.3762	0.6085	0.0020	0.3294	0.0528	0.0002	0.0286	0.0134		0.0073
3613	307	2.6113	0.0085	1.2897	0.5597	0.0018	0.2764	0.0688	0.0002	0.0340	0.0163		0.0081
3614	361	2.7579	0.0076	1.3479	0.8037	0.0022	0.3928	0.0677	0.0002	0.0331	0.0200		0.0098
3615	321	2.6648	0.0083	1.3836	0.4486	0.0014	0.2329	0.0615	0.0002	0.0319	0.0154		0.0080
3616	365	2.7781	0.0076	1.2731	0.6587	0.0018	0.3019	0.0645	0.0002	0.0296	0.0108		0.0049
3617	328	2.5919	0.0079	1.3393	0.4535	0.0014	0.2343	0.0690	0.0002	0.0357	0.0139		0.0072
3619	330	3.1009	0.0094	1.4982	1.2570	0.0038	0.6073	0.0817	0.0002	0.0395	0.0173		0.0084
3620	351	2.7300	0.0078	1.3309	0.5253	0.0015	0.2561	0.0752	0.0002	0.0367	0.0157		0.0077
3621	327	2.5693	0.0079	1.4163	0.5969	0.0018	0.3290	0.0771	0.0002	0.0425	0.0153		0.0084
3622	333	3.1429	0.0095	1.5399	0.5947	0.0018	0.2914	0.0723	0.0002	0.0354	0.0130		0.0064
3623	301	2.7295	0.0091	1.3825	0.4948	0.0016	0.2506	0.0702	0.0002	0.0356	0.0147		0.0074
3624	331	2.7116	0.0082	1.3655	0.5139	0.0016	0.2588	0.0767	0.0002	0.0386	0.0149		0.0075
3625	339	2.8553	0.0084	1.5395	1.0337	0.0031	0.5573	0.0655	0.0002	0.0353	0.0198		0.0107
3626	282	2.5095	0.0089	1.3630	0.7027	0.0025	0.3817	0.0589	0.0002	0.0320	0.0130		0.0071

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	KIDNEYS			UTERUS/OVIDUCTS			ADRENALS			PITUITARY		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4601	344	3.0433	0.0089	1.4811	0.4590	0.0013	0.2234	0.0789	0.0002	0.0384	0.0139		0.0068
4603	384	2.9434	0.0077	1.4052	0.4790	0.0012	0.2287	0.0941	0.0002	0.0449	0.0141		0.0067
4604	324	2.9285	0.0090	1.5785	0.5315	0.0016	0.2865	0.0769	0.0002	0.0414	0.0143		0.0077
4605	333	2.7485	0.0082	1.4278	0.4290	0.0013	0.2229	0.0731	0.0002	0.0380	0.0162		0.0084
4606	311	2.8370	0.0091	1.4815	0.5652	0.0018	0.2951	0.0705	0.0002	0.0368	0.0154		0.0080
4607	352	3.1009	0.0088	1.5607	0.7550	0.0021	0.3800	0.0784	0.0002	0.0395	0.0150		0.0075
4608	309	2.5815	0.0084	1.3046	0.4647	0.0015	0.2348	0.0726	0.0002	0.0367	0.0150		0.0076
4610	329	2.9903	0.0091	1.5701	0.5489	0.0017	0.2882	0.0634	0.0002	0.0333	0.0181		0.0095
4611	313	2.8911	0.0092	1.4777	0.5625	0.0018	0.2875	0.0876	0.0003	0.0448	0.0162		0.0083
4612	337	3.1131	0.0092	1.5366	0.5878	0.0017	0.2901	0.0795	0.0002	0.0392	0.0149		0.0074
4613	348	3.5363	0.0102	1.9000	0.5450	0.0016	0.2928	0.0649	0.0002	0.0349	0.0211		0.0113
4614	356	3.3332	0.0094	1.6855	0.5655	0.0016	0.2860	0.0713	0.0002	0.0361	0.0188		0.0095
4615	323	2.6538	0.0082	1.2406	0.6752	0.0021	0.3156	0.0785	0.0002	0.0367	0.0154		0.0072
4616	299	2.6750	0.0090	1.4968	0.9724	0.0033	0.5441	0.0614	0.0002	0.0344	0.0121		0.0068
4618	345	2.9253	0.0085	1.5020	0.4353	0.0013	0.2235	0.0737	0.0002	0.0378	0.0128		0.0066
4619	301	2.7315	0.0091	1.3008	0.6946	0.0023	0.3308	0.0686	0.0002	0.0327	0.0159		0.0076
4620	296	3.8995	0.0132	2.2410	0.3250	0.0011	0.1868	0.0739	0.0002	0.0425	0.0158		0.0091
4621	352	3.0907	0.0088	1.5621	0.5622	0.0016	0.2842	0.0771	0.0002	0.0390	0.0122		0.0062
4622	331	2.7924	0.0084	1.4069	0.5340	0.0016	0.2690	0.0710	0.0002	0.0358	0.0146		0.0074
4623	339	3.1823	0.0094	1.5877	0.6117	0.0018	0.3052	0.0793	0.0002	0.0396	0.0167		0.0083
4624	323	2.7955	0.0086	1.4547	0.5203	0.0016	0.2707	0.0768	0.0002	0.0400	0.0148		0.0077
4625	329	3.1652	0.0096	1.5968	0.6037	0.0018	0.3046	0.0637	0.0002	0.0321	0.0166		0.0084
4626	365	3.3907	0.0093	1.7146	0.6269	0.0017	0.3170	0.0645	0.0002	0.0326	0.0150		0.0076

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	OVARY LEFT			OVARY RIGHT			OVARIES		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g		
1601	366	0.0490	0.0001	0.0262	0.0633	0.0002	0.0338	0.0802	0.0002	0.0428
1602	338	0.0574	0.0002	0.0285	0.0453	0.0001	0.0225	0.1052	0.0003	0.0522
1603	325	0.0460	0.0001	0.0229	0.0671	0.0002	0.0334	0.1123	0.0003	0.0560
1604	322	0.0328	0.0001	0.0156	0.0700	0.0002	0.0334	0.1103	0.0003	0.0526
1605	302	0.0639	0.0002	0.0319	0.0495	0.0002	0.0247	0.1131	0.0004	0.0565
1607	317	0.0527	0.0002	0.0261	0.0517	0.0002	0.0256	0.1048	0.0003	0.0520
1608	302	0.0564	0.0002	0.0277	0.0707	0.0002	0.0348	0.1261	0.0004	0.0620
1610	292	0.0630	0.0002	0.0345	0.0458	0.0002	0.0251	0.1064	0.0004	0.0582
1612	331	0.0514	0.0002	0.0267	0.0480	0.0001	0.0250	0.0968	0.0003	0.0504
1613	343	0.0790	0.0002	0.0395	0.0486	0.0001	0.0243	0.1255	0.0004	0.0628
1614	365	0.0569	0.0002	0.0289	0.0771	0.0002	0.0392	0.1333	0.0004	0.0677
1615	333	0.0506	0.0002	0.0241	0.0481	0.0001	0.0229	0.0991	0.0003	0.0472
1616	354	0.0485	0.0001	0.0234	0.0660	0.0002	0.0318	0.1124	0.0003	0.0541
1617	360	0.0626	0.0002	0.0306	0.0637	0.0002	0.0312	0.1097	0.0003	0.0537
1618	350	0.0665	0.0002	0.0346	0.0751	0.0002	0.0391	0.1380	0.0004	0.0718
1619	338	0.0437	0.0001	0.0228	0.0561	0.0002	0.0292	0.0988	0.0003	0.0515
1620	337	0.0450	0.0001	0.0227	0.0437	0.0001	0.0221	0.0865	0.0003	0.0437
1621	340	0.0617	0.0002	0.0321	0.0465	0.0001	0.0242	0.1088	0.0003	0.0566
1622	305	0.0344	0.0001	0.0193	0.0528	0.0002	0.0296	0.0862	0.0003	0.0484
1623	283	0.0505	0.0002	0.0245	0.0446	0.0002	0.0216	0.0959	0.0003	0.0465
1624	345	0.0446	0.0001	0.0222	0.0517	0.0001	0.0258	0.0956	0.0003	0.0477
1626	321	0.0480	0.0001	0.0268	0.0507	0.0002	0.0283	0.0992	0.0003	0.0554

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	OVARY LEFT			OVARY RIGHT			OVARIES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2601	297	0.0421	0.0001	0.0216	0.0506	0.0002	0.0260	0.0917	0.0003	0.0471
2602	360	0.0476	0.0001	0.0239	0.0550	0.0002	0.0276	0.1020	0.0003	0.0512
2603	347	0.0591	0.0002	0.0296	0.0549	0.0002	0.0275	0.1133	0.0003	0.0568
2604	370	0.0440	0.0001	0.0232	0.0621	0.0002	0.0328	0.1037	0.0003	0.0548
2605	288	0.0571	0.0002	0.0294	0.0689	0.0002	0.0355	0.1248	0.0004	0.0643
2606	337	0.0465	0.0001	0.0227	0.0588	0.0002	0.0287	0.1059	0.0003	0.0516
2607	344	0.0653	0.0002	0.0309	0.0515	0.0001	0.0243	0.1170	0.0003	0.0553
2608	328	0.0504	0.0002	0.0263	0.0457	0.0001	0.0239	0.0948	0.0003	0.0495
2610	298	0.0447	0.0002	0.0229	0.0508	0.0002	0.0260	0.0953	0.0003	0.0488
2611	331	0.0596	0.0002	0.0298	0.0586	0.0002	0.0293	0.1193	0.0004	0.0596
2612	325	0.0428	0.0001	0.0221	0.0503	0.0002	0.0259	0.0914	0.0003	0.0471
2613	376	0.0577	0.0002	0.0288	0.0440	0.0001	0.0220	0.1006	0.0003	0.0503
2614	333	0.0552	0.0002	0.0268	0.0604	0.0002	0.0293	0.1156	0.0003	0.0560
2615	336	0.0466	0.0001	0.0238	0.0497	0.0001	0.0254	0.0936	0.0003	0.0479
2616	307	0.0504	0.0002	0.0248	0.0600	0.0002	0.0295	0.1124	0.0004	0.0554
2617	314	0.0582	0.0002	0.0301	0.0418	0.0001	0.0217	0.0966	0.0003	0.0500
2618	305	0.0565	0.0002	0.0303	0.0598	0.0002	0.0321	0.1106	0.0004	0.0594
2619	368	0.0703	0.0002	0.0344	0.0508	0.0001	0.0248	0.1208	0.0003	0.0591
2620	339	0.0524	0.0002	0.0272	0.0601	0.0002	0.0312	0.1118	0.0003	0.0581
2621	302	0.0434	0.0001	0.0222	0.0580	0.0002	0.0296	0.1018	0.0003	0.0520
2622	346	0.0553	0.0002	0.0285	0.0509	0.0001	0.0262	0.1053	0.0003	0.0543
2623	360	0.0576	0.0002	0.0267	0.0458	0.0001	0.0212	0.1083	0.0003	0.0502
2624	370	0.0748	0.0002	0.0360	0.0586	0.0002	0.0282	0.1304	0.0004	0.0627
2625	319	0.0593	0.0002	0.0279	0.0711	0.0002	0.0334	0.1312	0.0004	0.0617
2626	326	0.0518	0.0002	0.0260	0.0754	0.0002	0.0378	0.1260	0.0004	0.0631

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	OVARY LEFT			OVARY RIGHT			OVARIES		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g		
3601	300	0.0411	0.0001	0.0216	0.0479	0.0002	0.0252	0.0873	0.0003	0.0459
3602	315	0.0573	0.0002	0.0275	0.0516	0.0002	0.0247	0.1095	0.0003	0.0525
3603	349	0.0417	0.0001	0.0197	0.0498	0.0001	0.0236	0.0945	0.0003	0.0447
3604	310	0.0383	0.0001	0.0195	0.0525	0.0002	0.0268	0.0892	0.0003	0.0455
3606	294	0.0437	0.0001	0.0209	0.0433	0.0001	0.0207	0.0843	0.0003	0.0404
3607	320	0.0555	0.0002	0.0272	0.0417	0.0001	0.0204	0.0972	0.0003	0.0476
3608	363	0.0456	0.0001	0.0219	0.0529	0.0001	0.0254	0.0993	0.0003	0.0478
3609	381	0.0519	0.0001	0.0256	0.0665	0.0002	0.0328	0.1195	0.0003	0.0590
3610	313	0.0435	0.0001	0.0230	0.0536	0.0002	0.0283	0.0939	0.0003	0.0496
3611	295	0.0475	0.0002	0.0257	0.0529	0.0002	0.0286	0.1008	0.0003	0.0546
3612	311	0.0338	0.0001	0.0183	0.0478	0.0002	0.0259	0.0812	0.0003	0.0440
3613	307	0.0463	0.0002	0.0229	0.0394	0.0001	0.0195	0.0838	0.0003	0.0414
3614	361	0.0513	0.0001	0.0251	0.0569	0.0002	0.0278	0.1081	0.0003	0.0528
3615	321	0.0508	0.0002	0.0264	0.0446	0.0001	0.0232	0.0974	0.0003	0.0506
3616	365	0.0614	0.0002	0.0281	0.0653	0.0002	0.0299	0.1241	0.0003	0.0569
3617	328	0.0407	0.0001	0.0210	0.0478	0.0001	0.0247	0.0869	0.0003	0.0449
3619	330	0.0436	0.0001	0.0211	0.0626	0.0002	0.0302	0.1055	0.0003	0.0510
3620	351	0.0368	0.0001	0.0179	0.0611	0.0002	0.0298	0.0995	0.0003	0.0485
3621	327	0.0603	0.0002	0.0332	0.0537	0.0002	0.0296	0.1128	0.0003	0.0622
3622	333	0.0750	0.0002	0.0367	0.0745	0.0002	0.0365	0.1488	0.0004	0.0729
3623	301	0.0628	0.0002	0.0318	0.8297	0.0028	0.4203	0.8896	0.0030	0.4506
3624	331	0.0510	0.0002	0.0257	0.0417	0.0001	0.0210	0.0909	0.0003	0.0458
3625	339	0.0481	0.0001	0.0259	0.0630	0.0002	0.0340	0.1106	0.0003	0.0596
3626	282	0.0338	0.0001	0.0184	0.0396	0.0001	0.0215	0.0739	0.0003	0.0401

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

ORGAN AND FINAL BODY WEIGHTS

FEMALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	OVARY LEFT			OVARY RIGHT			OVARIES		
		Weight	%FBW	%Brain	Weight	%FBW	%Brain	Weight	%FBW	%Brain
		g			g			g		
4601	344	0.0660	0.0002	0.0321	0.0645	0.0002	0.0314	0.1350	0.0004	0.0657
4603	384	0.0386	0.0001	0.0184	0.0576	0.0002	0.0275	0.0942	0.0002	0.0450
4604	324	0.0557	0.0002	0.0300	0.0522	0.0002	0.0281	0.1042	0.0003	0.0562
4605	333	0.0538	0.0002	0.0279	0.0428	0.0001	0.0222	0.0964	0.0003	0.0501
4606	311	0.0574	0.0002	0.0300	0.0486	0.0002	0.0254	0.1044	0.0003	0.0545
4607	352	0.0551	0.0002	0.0277	0.0534	0.0002	0.0269	0.1063	0.0003	0.0535
4608	309	0.0556	0.0002	0.0281	0.0601	0.0002	0.0304	0.1164	0.0004	0.0588
4610	329	0.0597	0.0002	0.0313	0.0594	0.0002	0.0312	0.1201	0.0004	0.0631
4611	313	0.0563	0.0002	0.0288	0.0620	0.0002	0.0317	0.1178	0.0004	0.0602
4612	337	0.0351	0.0001	0.0173	0.0396	0.0001	0.0195	0.0753	0.0002	0.0372
4613	348	0.0574	0.0002	0.0308	0.0509	0.0001	0.0273	0.0930	0.0003	0.0500
4614	356	0.0504	0.0001	0.0255	0.0578	0.0002	0.0292	0.1070	0.0003	0.0541
4615	323	0.0744	0.0002	0.0348	0.0539	0.0002	0.0252	0.1246	0.0004	0.0582
4616	299	0.0488	0.0002	0.0273	0.0481	0.0002	0.0269	0.0912	0.0003	0.0510
4618	345	0.0619	0.0002	0.0318	0.0518	0.0002	0.0266	0.1079	0.0003	0.0554
4619	301	0.0601	0.0002	0.0286	0.0515	0.0002	0.0245	0.1101	0.0004	0.0524
4620	296	0.0300	0.0001	0.0172	0.0308	0.0001	0.0177	0.0605	0.0002	0.0348
4621	352	0.0525	0.0001	0.0265	0.0485	0.0001	0.0245	0.1000	0.0003	0.0505
4622	331	0.0567	0.0002	0.0286	0.0512	0.0002	0.0258	0.1060	0.0003	0.0534
4623	339	0.0554	0.0002	0.0276	0.0536	0.0002	0.0267	0.1087	0.0003	0.0542
4624	323	0.0522	0.0002	0.0272	0.0588	0.0002	0.0306	0.1105	0.0003	0.0575
4625	329	0.0623	0.0002	0.0314	0.0484	0.0001	0.0244	0.1091	0.0003	0.0550
4626	365	0.0455	0.0001	0.0230	0.0558	0.0002	0.0282	0.1007	0.0003	0.0509

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX Y

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
1601	6	M	73.3	1.475	2.012	0.294	0.400	0.229	0.313
	10	F	73.4	1.569	2.137	0.278	0.379	0.407	0.554
1602	8	M	95.3	1.649	1.730	0.417	0.438	0.402	0.422
	13	F	88.3	1.519	1.720	0.325	0.368	0.412	0.467
1603	9	M	83.3	1.607	1.929	0.354	0.425	0.315	0.378
	10	F	73.7	1.561	2.118	0.238	0.323	0.370	0.502
1604	4	M	81.3	1.709	2.102	0.338	0.416	0.395	0.486
	13	F	76.9	1.606	2.089	0.263	0.342	0.303	0.395
1605	9	M	83.7	1.547	1.848	0.342	0.408	0.382	0.457
	15	F	86.5	1.574	1.820	0.497	0.574	0.431	0.499
1607	5	M	75.4	1.590	2.109	0.357	0.474	0.348	0.462
	9	F	75.2	1.540	2.048	0.229	0.305	0.421	0.559
1608	6	M	85.0	1.680	1.976	0.316	0.371	0.374	0.440
	11	F	70.5	1.598	2.267	0.206	0.293	0.353	0.501
1610	3	M	77.9	1.542	1.979	0.379	0.486	0.352	0.451
	6	F	76.2	1.582	2.075	0.280	0.367	0.369	0.484
1612	4	M	82.9	1.577	1.902	0.221	0.266	0.319	0.385
	8	F	73.6	1.524	2.071	0.221	0.300	0.299	0.407
1613	4	M	81.5	1.633	2.004	0.230	0.283	0.309	0.379
	14	F	74.2	1.561	2.103	0.207	0.279	0.362	0.488
1614	8	M	82.6	1.605	1.943	0.359	0.435	0.349	0.423
	16	F	71.3	1.526	2.140	0.274	0.384	0.324	0.455
1615	1	M	88.3	1.542	1.747	0.350	0.396	0.461	0.523

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
1615	(continued)								
	6	F	72.8	1.531	2.103	0.268	0.368	0.412	0.566
1616	3	M	90.3	1.592	1.763	0.336	0.372	0.436	0.483
	10	F	84.7	1.579	1.864	0.386	0.455	0.498	0.588
1617	6	M	69.6	1.503	2.159	0.271	0.389	0.292	0.420
	10	F	81.5	1.526	1.872	0.281	0.344	0.395	0.485
1618	4	M	84.8	1.552	1.831	0.347	0.409	0.380	0.448
	10	F	76.1	1.530	2.011	0.355	0.466	0.415	0.545
1619	3	M	76.3	1.520	1.993	0.314	0.412	0.315	0.412
	14	F	79.6	1.561	1.961	0.309	0.388	0.388	0.488
1620	2	M	81.1	1.585	1.954	0.319	0.393	0.401	0.494
	12	F	72.7	1.546	2.126	0.298	0.410	0.365	0.502
1621	1	M	89.3	1.524	1.706	0.351	0.393	0.449	0.502
	17	F	85.4	1.429	1.673	0.372	0.436	0.405	0.474
1622	4	M	88.5	1.657	1.872	0.356	0.402	0.372	0.420
	11	F	71.8	1.483	2.065	0.270	0.377	0.334	0.465
1623	1	M	76.4	1.564	2.047	0.368	0.481	0.325	0.426
	8	F	69.7	1.346	1.931	0.309	0.444	0.357	0.512
1624	3	M	89.4	1.661	1.858	0.247	0.276	0.361	0.404
	9	F	79.0	1.622	2.054	0.236	0.299	0.439	0.555
1626	2	M	74.2	1.501	2.023	0.272	0.366	0.323	0.435
	13	F	73.3	1.398	1.907	0.242	0.330	0.380	0.519

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
2601	2	M	65.0	1.571	2.417	0.205	0.315	0.283	0.436
	8	F	68.6	1.599	2.331	0.310	0.452	0.361	0.526
2602	4	M	84.2	1.662	1.974	0.372	0.442	0.478	0.568
	12	F	74.0	1.552	2.097	0.345	0.466	0.350	0.473
2603	1	M	92.0	1.603	1.743	0.341	0.371	0.359	0.390
	9	F	83.9	1.539	1.835	0.358	0.427	0.398	0.474
2604	4	M	67.3	1.460	2.169	0.359	0.534	0.291	0.433
	14	F	59.3	1.399	2.360	0.306	0.516	0.259	0.437
2605	5	M	72.7	1.475	2.029	0.313	0.430	0.288	0.397
	9	F	67.1	1.412	2.104	0.242	0.360	0.411	0.613
2606	6	M	75.0	1.596	2.128	0.254	0.338	0.270	0.359
	14	F	74.8	1.597	2.135	0.299	0.400	0.313	0.418
2607	5	M	84.4	1.490	1.765	0.354	0.420	0.406	0.481
	15	F	71.8	1.529	2.130	0.254	0.353	0.349	0.486
2608	6	M	68.5	1.530	2.233	0.303	0.442	0.359	0.524
	11	F	74.1	1.513	2.042	0.296	0.400	0.351	0.473
2610	1	M	73.9	1.516	2.052	0.369	0.499	0.378	0.511
	8	F	76.0	1.579	2.078	0.274	0.361	0.250	0.329
2611	7	M	57.4	1.475	2.569	0.279	0.486	0.263	0.459
	12	F	60.5	1.522	2.515	0.346	0.571	0.270	0.447
2612	3	M	82.3	1.514	1.839	0.324	0.393	0.246	0.299
	12	F	73.3	1.534	2.092	0.347	0.474	0.392	0.534
2613	3	M	69.9	1.480	2.117	0.258	0.369	0.288	0.412

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APPENDIX Y

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
2613	(continued)								
	15	F	74.6	1.466	1.966	0.252	0.338	0.341	0.457
2614	1	M	92.9	1.623	1.747	0.392	0.422	0.326	0.350
	14	F	72.9	1.478	2.027	0.260	0.357	0.414	0.568
2615	5	M	70.3	1.495	2.126	0.361	0.513	0.267	0.379
	12	F	65.1	1.488	2.286	0.256	0.393	0.353	0.542
2616	4	M	83.3	1.540	1.849	0.421	0.506	0.419	0.503
	12	F	69.4	1.484	2.139	0.238	0.343	0.318	0.458
2617	4	M	81.3	1.553	1.910	0.368	0.453	0.363	0.447
	13	F	76.8	1.465	1.908	0.390	0.508	0.358	0.467
2618	4	M	89.3	1.593	1.784	0.385	0.431	0.345	0.387
	10	F	77.8	1.511	1.942	0.364	0.468	0.356	0.458
2619	2	M	85.8	1.578	1.840	0.340	0.396	0.350	0.408
	15	F	75.2	1.485	1.975	0.247	0.329	0.363	0.483
2620	3	M	84.1	1.640	1.951	0.360	0.428	0.360	0.428
	10	F	79.7	1.495	1.876	0.307	0.385	0.460	0.577
2621	2	M	77.4	1.512	1.954	0.313	0.404	0.356	0.460
	13	F	72.4	1.459	2.015	0.257	0.355	0.387	0.535
2622	1	M	87.1	1.658	1.904	0.382	0.439	0.420	0.483
	13	F	80.4	1.635	2.033	0.326	0.405	0.395	0.491
2623	2	M	77.4	1.483	1.916	0.243	0.313	0.287	0.371
	11	F	72.7	1.481	2.037	0.255	0.351	0.321	0.442
2624	10	M	73.7	1.538	2.087	0.270	0.366	0.361	0.489
	11	F	67.2	1.483	2.207	0.266	0.396	0.289	0.431

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APPENDIX Y

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
2625	2	M	64.2	1.551	2.415	0.261	0.406	0.275	0.428
	15	F	58.0	1.534	2.645	0.256	0.442	0.319	0.550
2626	4	M	82.0	1.664	2.029	0.388	0.473	0.384	0.468
	6	F	85.6	1.590	1.857	0.389	0.454	0.366	0.428

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APPENDIX Y

GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
3601	9	M	79.1	1.554	1.965	0.322	0.407	0.393	0.496
	10	F	88.8	1.585	1.785	0.308	0.347	0.406	0.457
3602	8	M	72.9	1.646	2.257	0.341	0.468	0.421	0.578
	11	F	65.6	1.453	2.215	0.272	0.415	0.324	0.493
3603	4	M	78.8	1.555	1.973	0.293	0.372	0.365	0.463
	7	F	77.5	1.582	2.041	0.319	0.411	0.425	0.549
3604	4	M	78.5	1.597	2.034	0.342	0.436	0.355	0.453
	10	F	66.1	1.564	2.366	0.295	0.446	0.318	0.481
3606	3	M	52.1	1.437	2.757	0.237	0.455	0.242	0.465
	7	F	69.1	1.434	2.075	0.272	0.394	0.379	0.549
3607	4	M	83.2	1.720	2.067	0.307	0.369	0.407	0.489
	7	F	73.5	1.662	2.261	0.224	0.304	0.368	0.501
3608	2	M	85.7	1.612	1.881	0.334	0.389	0.431	0.502
	16	F	72.6	1.485	2.046	0.297	0.409	0.357	0.492
3609	2	M	63.0	1.528	2.426	0.234	0.371	0.326	0.517
	9	F	71.2	1.514	2.126	0.290	0.407	0.342	0.480
3610	4	M	85.4	1.606	1.881	0.308	0.361	0.370	0.433
	12	F	78.2	1.441	1.843	0.325	0.415	0.424	0.542
3611	6	M	86.9	1.557	1.791	0.382	0.440	0.352	0.406
	7	F	72.4	1.485	2.052	0.249	0.344	0.331	0.457
3612	8	M	74.2	1.452	1.956	0.373	0.503	0.314	0.423
	13	F	69.9	1.301	1.861	0.301	0.431	0.337	0.482
3613	2	M	58.1	1.484	2.554	0.294	0.505	0.208	0.357

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
3613	(continued)								
	14	F	61.7	1.457	2.361	0.230	0.373	0.257	0.416
3614	2	M	76.0	1.551	2.040	0.297	0.390	0.365	0.481
	10	F	81.0	1.450	1.790	0.305	0.377	0.373	0.461
3615	4	M	67.9	1.475	2.172	0.326	0.480	0.337	0.497
	13	F	65.5	1.503	2.294	0.276	0.421	0.320	0.489
3616	6	M	83.6	1.642	1.965	0.315	0.377	0.373	0.446
	16	F	74.7	1.726	2.311	0.273	0.365	0.433	0.580
3617	4	M	60.9	1.383	2.271	0.250	0.411	0.347	0.571
	5	F	64.3	1.382	2.149	0.264	0.411	0.232	0.361
3619	3	M	93.4	1.641	1.757	0.373	0.399	0.521	0.557
	17	F	79.8	1.564	1.960	0.273	0.342	0.441	0.553
3620	4	M	82.0	1.517	1.850	0.294	0.358	0.336	0.410
	13	F	75.4	1.505	1.996	0.256	0.340	0.320	0.425
3621	9	F	72.0	1.537	2.134	0.290	0.403	0.411	0.571
	10	M	83.1	1.597	1.921	0.379	0.456	0.486	0.584
3622	2	M	80.9	1.602	1.980	0.261	0.322	0.431	0.533
	10	F	76.9	1.606	2.089	0.255	0.331	0.390	0.508
3623	1	M	80.2	1.526	1.903	0.399	0.498	0.409	0.510
	5	F	76.7	1.552	2.023	0.368	0.480	0.371	0.484
3624	4	M	74.2	1.595	2.149	0.245	0.330	0.282	0.380
	8	F	64.8	1.448	2.235	0.230	0.354	0.255	0.393
3625	3	M	95.5	1.606	1.682	0.379	0.397	0.434	0.454
	4	F	86.9	1.564	1.800	0.354	0.407	0.450	0.518

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
3626	4	M	66.6	1.530	2.298	0.279	0.419	0.267	0.401
	10	F	58.7	1.477	2.516	0.226	0.384	0.240	0.409

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
4601	3	M	91.6	1.664	1.817	0.268	0.292	0.273	0.298
	4	F	89.1	1.622	1.821	0.315	0.353	0.472	0.530
4603	10	M	76.3	1.492	1.956	0.283	0.372	0.309	0.405
	14	F	80.4	1.501	1.867	0.286	0.355	0.375	0.467
4604	4	M	62.9	1.401	2.227	0.247	0.392	0.370	0.587
	15	F	62.5	1.515	2.423	0.257	0.412	0.364	0.582
4605	1	M	81.1	1.617	1.994	0.250	0.309	0.325	0.401
	14	F	75.9	1.472	1.939	0.220	0.290	0.276	0.364
4606	6	M	70.8	1.481	2.092	0.299	0.423	0.342	0.483
	10	F	58.9	1.439	2.442	0.178	0.302	0.297	0.504
4607	2	M	99.1	1.786	1.802	0.363	0.366	0.540	0.545
	3	F	95.5	1.645	1.723	0.396	0.415	0.426	0.446
4608	6	M	79.8	1.541	1.932	0.376	0.472	0.411	0.515
	15	F	79.6	1.582	1.988	0.323	0.406	0.413	0.519
4610	2	M	71.4	1.508	2.112	0.372	0.521	0.266	0.372
	11	F	78.7	1.555	1.976	0.371	0.472	0.388	0.493
4611	3	M	83.3	1.630	1.957	0.335	0.402	0.372	0.447
	12	F	78.6	1.487	1.892	0.337	0.429	0.390	0.496
4612	5	M	79.9	1.536	1.922	0.316	0.395	0.336	0.420
	12	F	74.1	1.450	1.957	0.252	0.340	0.304	0.411
4613	7	M	72.9	1.504	2.064	0.262	0.360	0.324	0.445
	13	F	76.7	1.468	1.914	0.312	0.407	0.362	0.472
4614	3	M	78.8	1.498	1.901	0.353	0.448	0.417	0.529

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BODY WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
4614	(continued)								
	17	F	69.4	1.451	2.091	0.350	0.504	0.361	0.520
4615	2	M	82.9	1.616	1.950	0.303	0.366	0.388	0.468
	14	F	59.1	1.459	2.468	0.256	0.433	0.216	0.366
4616	6	M	84.3	1.518	1.801	0.245	0.291	0.418	0.496
	12	F	69.9	1.429	2.044	0.227	0.325	0.358	0.513
4618	5	M	76.0	1.541	2.028	0.277	0.365	0.447	0.588
	10	F	56.7	1.362	2.402	0.190	0.336	0.257	0.453
4619	6	M	74.7	1.590	2.129	0.275	0.369	0.345	0.461
	10	F	58.2	1.459	2.507	0.213	0.365	0.242	0.415
4620	6	M	48.0	1.339	2.789	0.250	0.520	0.201	0.420
	13	F	41.0	1.275	3.111	0.187	0.457	0.175	0.427
4621	6	M	81.6	1.558	1.909	0.341	0.417	0.349	0.428
	10	F	65.7	1.471	2.240	0.229	0.349	0.392	0.597
4622	6	M	78.2	1.541	1.971	0.277	0.355	0.327	0.418
	11	F	69.0	1.594	2.310	0.252	0.364	0.320	0.464
4623	4	M	80.0	1.476	1.845	0.325	0.406	0.397	0.496
	5	F	71.0	1.521	2.143	0.278	0.391	0.348	0.490
4624	9	M	75.0	1.570	2.093	0.326	0.435	0.321	0.428
	15	F	63.0	1.322	2.098	0.266	0.422	0.262	0.416
4625	2	M	84.5	1.586	1.877	0.390	0.462	0.361	0.427
	8	F	78.0	1.531	1.962	0.342	0.438	0.354	0.454
4626	4	M	81.5	1.589	1.950	0.299	0.366	0.441	0.541
	12	F	71.6	1.506	2.103	0.280	0.391	0.419	0.585

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
1601	6	M	1.475	0.294	19.90	0.229	15.54
	10	F	1.569	0.278	17.74	0.407	25.94
1602	8	M	1.649	0.417	25.30	0.402	24.37
	13	F	1.519	0.325	21.39	0.412	27.14
1603	9	M	1.607	0.354	22.05	0.315	19.59
	10	F	1.561	0.238	15.28	0.370	23.73
1604	4	M	1.709	0.338	19.80	0.395	23.13
	13	F	1.606	0.263	16.37	0.303	18.89
1605	9	M	1.547	0.342	22.08	0.382	24.72
	15	F	1.574	0.497	31.56	0.431	27.40
1607	5	M	1.590	0.357	22.46	0.348	21.91
	9	F	1.540	0.229	14.87	0.421	27.31
1608	6	M	1.680	0.316	18.79	0.374	22.25
	11	F	1.598	0.206	12.91	0.353	22.11
1610	3	M	1.542	0.379	24.57	0.352	22.80
	6	F	1.582	0.280	17.70	0.369	23.32
1612	4	M	1.577	0.221	14.01	0.319	20.25
	8	F	1.524	0.221	14.49	0.299	19.63
1613	4	M	1.633	0.230	14.11	0.309	18.91
	14	F	1.561	0.207	13.28	0.362	23.21
1614	8	M	1.605	0.359	22.39	0.349	21.75
	16	F	1.526	0.274	17.96	0.324	21.24
1615	1	M	1.542	0.350	22.66	0.461	29.92

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				-----		-----	
				Weight	Ratio	Weight	Ratio
1615	(continued)						
	6	F	1.531	0.268	17.52	0.412	26.91
1616	3	M	1.592	0.336	21.08	0.436	27.40
	10	F	1.579	0.386	24.41	0.498	31.55
1617	6	M	1.503	0.271	18.01	0.292	19.45
	10	F	1.526	0.281	18.39	0.395	25.91
1618	4	M	1.552	0.347	22.33	0.380	24.48
	10	F	1.530	0.355	23.17	0.415	27.12
1619	3	M	1.520	0.314	20.68	0.315	20.69
	14	F	1.561	0.309	19.80	0.388	24.87
1620	2	M	1.585	0.319	20.14	0.401	25.29
	12	F	1.546	0.298	19.28	0.365	23.62
1621	1	M	1.524	0.351	23.02	0.449	29.44
	17	F	1.429	0.372	26.05	0.405	28.32
1622	4	M	1.657	0.356	21.46	0.372	22.45
	11	F	1.483	0.270	18.23	0.334	22.49
1623	1	M	1.564	0.368	23.52	0.325	20.81
	8	F	1.346	0.309	22.99	0.357	26.54
1624	3	M	1.661	0.247	14.86	0.361	21.75
	9	F	1.622	0.236	14.55	0.439	27.04
1626	2	M	1.501	0.272	18.09	0.323	21.52
	13	F	1.398	0.242	17.30	0.380	27.20

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
2601	2	M	1.571	0.205	13.05	0.283	18.04
	8	F	1.599	0.310	19.37	0.361	22.54
2602	4	M	1.662	0.372	22.39	0.478	28.76
	12	F	1.552	0.345	22.20	0.350	22.54
2603	1	M	1.603	0.341	21.29	0.359	22.39
	9	F	1.539	0.358	23.28	0.398	25.82
2604	4	M	1.460	0.359	24.62	0.291	19.96
	14	F	1.399	0.306	21.86	0.259	18.52
2605	5	M	1.475	0.313	21.21	0.288	19.55
	9	F	1.412	0.242	17.12	0.411	29.14
2606	6	M	1.596	0.254	15.89	0.270	16.89
	14	F	1.597	0.299	18.73	0.313	19.60
2607	5	M	1.490	0.354	23.77	0.406	27.27
	15	F	1.529	0.254	16.60	0.349	22.80
2608	6	M	1.530	0.303	19.79	0.359	23.45
	11	F	1.513	0.296	19.59	0.351	23.18
2610	1	M	1.516	0.369	24.31	0.378	24.92
	8	F	1.579	0.274	17.35	0.250	15.84
2611	7	M	1.475	0.279	18.91	0.263	17.86
	12	F	1.522	0.346	22.71	0.270	17.76
2612	3	M	1.514	0.324	21.37	0.246	16.27
	12	F	1.534	0.347	22.65	0.392	25.54
2613	3	M	1.480	0.258	17.45	0.288	19.47

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
2613	(continued)						
	15	F	1.466	0.252	17.19	0.341	23.25
2614	1	M	1.623	0.392	24.14	0.326	20.06
	14	F	1.478	0.260	17.59	0.414	28.03
2615	5	M	1.495	0.361	24.14	0.267	17.84
	12	F	1.488	0.256	17.21	0.353	23.72
2616	4	M	1.540	0.421	27.35	0.419	27.21
	12	F	1.484	0.238	16.04	0.318	21.42
2617	4	M	1.553	0.368	23.72	0.363	23.39
	13	F	1.465	0.390	26.64	0.358	24.46
2618	4	M	1.593	0.385	24.14	0.345	21.68
	10	F	1.511	0.364	24.07	0.356	23.56
2619	2	M	1.578	0.340	21.52	0.350	22.16
	15	F	1.485	0.247	16.66	0.363	24.44
2620	3	M	1.640	0.360	21.96	0.360	21.96
	10	F	1.485	0.307	20.68	0.460	30.97
2621	2	M	1.512	0.313	20.70	0.356	23.53
	13	F	1.459	0.257	17.63	0.387	26.55
2622	1	M	1.658	0.382	23.03	0.420	25.35
	13	F	1.635	0.326	19.94	0.395	24.17
2623	2	M	1.483	0.243	16.36	0.287	19.35
	11	F	1.481	0.255	17.23	0.321	21.70
2624	10	M	1.538	0.270	17.54	0.361	23.44
	11	F	1.483	0.266	17.93	0.289	19.50

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
2625	2	M	1.551	0.261	16.82	0.275	17.74
	15	F	1.534	0.256	16.70	0.319	20.79
2626	4	M	1.664	0.388	23.32	0.384	23.07
	6	F	1.590	0.389	24.47	0.366	23.04

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
3601	9	M	1.554	0.322	20.72	0.393	25.26
	10	F	1.585	0.308	19.43	0.406	25.61
3602	8	M	1.646	0.341	20.74	0.421	25.58
	11	F	1.453	0.272	18.73	0.324	22.27
3603	4	M	1.555	0.293	18.86	0.365	23.47
	7	F	1.582	0.319	20.16	0.425	26.87
3604	4	M	1.597	0.342	21.42	0.355	22.26
	10	F	1.564	0.295	18.87	0.318	20.31
3606	3	M	1.437	0.237	16.48	0.242	16.86
	7	F	1.434	0.272	18.98	0.379	26.45
3607	4	M	1.720	0.307	17.84	0.407	23.64
	7	F	1.662	0.224	13.46	0.368	22.16
3608	2	M	1.612	0.334	20.70	0.431	26.71
	16	F	1.485	0.297	19.97	0.357	24.06
3609	2	M	1.528	0.234	15.29	0.326	21.33
	9	F	1.514	0.290	19.14	0.342	22.60
3610	4	M	1.606	0.308	19.17	0.370	23.03
	12	F	1.441	0.325	22.54	0.424	29.43
3611	6	M	1.557	0.382	24.56	0.352	22.64
	7	F	1.485	0.249	16.78	0.331	22.27
3612	8	M	1.452	0.373	25.71	0.314	21.63
	13	F	1.301	0.301	23.15	0.337	25.91
3613	2	M	1.484	0.294	19.79	0.208	14.00

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
3613	(continued)						
	14	F	1.457	0.230	15.81	0.257	17.60
3614	2	M	1.551	0.297	19.13	0.365	23.57
	10	F	1.450	0.305	21.05	0.373	25.73
3615	4	M	1.475	0.326	22.08	0.337	22.88
	13	F	1.503	0.276	18.37	0.320	21.31
3616	6	M	1.642	0.315	19.20	0.373	22.70
	16	F	1.726	0.273	15.81	0.433	25.08
3617	4	M	1.383	0.250	18.08	0.347	25.13
	5	F	1.382	0.264	19.13	0.232	16.81
3619	3	M	1.641	0.373	22.70	0.521	31.71
	17	F	1.564	0.273	17.47	0.441	28.21
3620	4	M	1.517	0.294	19.37	0.336	22.17
	13	F	1.505	0.256	17.03	0.320	21.29
3621	9	F	1.537	0.290	18.87	0.411	26.75
	10	M	1.597	0.379	23.73	0.486	30.41
3622	2	M	1.602	0.261	16.28	0.431	26.94
	10	F	1.606	0.255	15.84	0.390	24.30
3623	1	M	1.526	0.399	26.14	0.409	26.82
	5	F	1.552	0.368	23.70	0.371	23.91
3624	4	M	1.595	0.245	15.37	0.282	17.69
	8	F	1.448	0.230	15.86	0.255	17.58
3625	3	M	1.606	0.379	23.62	0.434	27.00
	4	F	1.564	0.354	22.62	0.450	28.78

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GASOLINE TAME VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
3626	4	M	1.530	0.279	18.23	0.267	17.44
	10	F	1.477	0.226	15.28	0.240	16.26

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
4601	3	M	1.664	0.268	16.09	0.273	16.38
	4	F	1.622	0.315	19.38	0.472	29.08
4603	10	M	1.492	0.283	19.00	0.309	20.68
	14	F	1.501	0.286	19.03	0.375	24.99
4604	4	M	1.401	0.247	17.60	0.370	26.38
	15	F	1.515	0.257	16.99	0.364	24.03
4605	1	M	1.617	0.250	15.49	0.325	20.11
	14	F	1.472	0.220	14.95	0.276	18.75
4606	6	M	1.481	0.299	20.21	0.342	23.10
	10	F	1.439	0.178	12.35	0.297	20.63
4607	2	M	1.786	0.363	20.32	0.540	30.22
	3	F	1.645	0.396	24.10	0.426	25.90
4608	6	M	1.541	0.376	24.41	0.411	26.67
	15	F	1.582	0.323	20.42	0.413	26.11
4610	2	M	1.508	0.372	24.68	0.266	17.62
	11	F	1.555	0.371	23.88	0.388	24.95
4611	3	M	1.630	0.335	20.57	0.372	22.84
	12	F	1.487	0.337	22.66	0.390	26.24
4612	5	M	1.536	0.316	20.57	0.336	21.85
	12	F	1.450	0.252	17.40	0.304	20.99
4613	7	M	1.504	0.262	17.42	0.324	21.55
	13	F	1.468	0.312	21.24	0.362	24.65
4614	3	M	1.498	0.353	23.56	0.417	27.85

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio
4614	(continued)						
	17	F	1.451	0.350	24.11	0.361	24.89
4615	2	M	1.616	0.303	18.78	0.388	24.00
	14	F	1.459	0.256	17.54	0.216	14.82
4616	6	M	1.518	0.245	16.13	0.418	27.53
	12	F	1.429	0.227	15.88	0.358	25.08
4618	5	M	1.541	0.277	17.99	0.447	28.98
	10	F	1.362	0.190	13.97	0.257	18.85
4619	6	M	1.590	0.275	17.32	0.345	21.68
	10	F	1.459	0.213	14.57	0.242	16.55
4620	6	M	1.339	0.250	18.63	0.201	15.05
	13	F	1.275	0.187	14.69	0.175	13.74
4621	6	M	1.558	0.341	21.86	0.349	22.41
	10	F	1.471	0.229	15.57	0.392	26.66
4622	6	M	1.541	0.277	18.00	0.327	21.19
	11	F	1.594	0.252	15.78	0.320	20.10
4623	4	M	1.476	0.325	22.00	0.397	26.89
	5	F	1.521	0.278	18.26	0.348	22.87
4624	9	M	1.570	0.326	20.77	0.321	20.44
	15	F	1.322	0.266	20.13	0.262	19.84
4625	2	M	1.586	0.390	24.59	0.361	22.74
	8	F	1.531	0.342	22.32	0.354	23.14
4626	4	M	1.589	0.299	18.78	0.441	27.73
	12	F	1.506	0.280	18.59	0.419	27.81

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Key to Abbreviations

GI = Gland

Notes

1. Unless otherwise specified in a histopathology note, the organ/tissue examined was the required (routine) section.
2. For Animal number 4106, the right epididymis and testis were noted as missing, however, these organs were shipped to Pathology Associates International (PAI) for sperm assessments.

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Gasoline TAME Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats Individual Animal Gross and Microscopic Observations

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1101
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating G1	Right Epididymis	Kidneys
Liver	Lungs	Pituitary gland	Prostate	Spleen
Seminal vesicles	Right Testis			

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1102
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs	Discolored, Left lobe(s), Tan, Foci, </= 0.1 cm, Slight	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.
	Discolored, Tan, Foci, </= 0.1 cm, Slight/ Diaphragmatic	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Kidneys
Liver	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1103
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal. CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal.
Lungs	Discolored, Left lobe(s), Red, Foci, </= 0.1 cm, Slight	Tissue is unremarkable. Examined; no correlation found

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Liver
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1104
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Gasoline TAME Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats Individual Animal Gross and Microscopic Observations

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, UNILATERAL, Focal, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating G1	Right Epididymis	Liver
Lungs	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1106
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Adrenal Glands	No gross observations on tissue.	Tissue is unremarkable (with comment). - One medulla absent.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Brain	Coagulating Gl	Right Epididymis	Kidneys	Liver
Lungs	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1107
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Lungs	Discolored, All lobes, Foci/ (post-fixation observation)	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.
Skin	Scab, Red, Moderate/ Right upper lateral, 1.5 x 2.0 cm	Examined; 1 correlation found: EPITHELIUM: ULCER(S), Marked. EPITHELIUM: SQUAMOUS CELL HYPERPLASIA, Moderate. EPITHELIUM: HYPERKERATOSIS, Slight. ABSCESS(ES), Focal, Moderate.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating G1	Right Epididymis	Kidneys
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1108
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1109
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.
Kidneys	No gross observations on tissue.	CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1110
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1111
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1112
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1113
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1114
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1115
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 1116
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Coagulating Gl	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.	
Kidneys	Dilated Pelvis, Right, Slight	Examined; 1 correlation found: PELVIS: DILATED, UNILATERAL, Slight.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1117
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 1118
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1119
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1120
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 1121
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 1122
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1123
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl	No gross observations on tissue.	SECRETORY PRODUCT: DECREASED, UNILATERAL, Minimal.
Kidneys	No gross observations on tissue.	CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1125	
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 1	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Lungs	No gross observations on tissue.	OSSEOUS METAPLASIA, Minimal.	
Skin	Hair Thin/Absent, Extremities/snout	Tissue is missing.	
- Skin from extremity and snout is missing.			

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating G1	Right Epididymis	Kidneys
Liver	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 1126
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4101	
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4102
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4103
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4104
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl	No gross observations on tissue.	One-of-pair missing. SECRETORY PRODUCT: DECREASED, Slight.
Kidneys	Dilated Pelvis, Right, Moderate	Examined; 1 correlation found: PELVIS: DILATED, Slight. CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Moderate. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Slight. CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR CASTS, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice PHASE DAY OF DEATH: 110		
SEX: Male PHASE: Dosing phase		
ANIMAL: 4106 GROUP: 4		
Left Epididymis	Abscess(es), Cauda, Green, Soft/ Thick material, 1.0 cm dia	Examined; 1 correlation found: SPERM GRANULOMA, Present.
Right Epididymis . . .	No gross observations on tissue.	Tissue is missing.
Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Minimal. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Seminal vesicles . . .	No gross observations on tissue.	SECRETORY PRODUCT: DECREASED, UNILATERAL, Minimal.
Right Testis	No gross observations on tissue.	Tissue is missing.

Tissues without comment under Gross Observations were within normal limits at necropsy.
 The following tissues were unremarkable microscopically:
 Adrenal Glands Brain Coagulating Gl Lungs Pituitary gland

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 4106
PHASE DAY OF DEATH: 110		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Prostate	Spleen	Left testis	

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 4107
PHASE DAY OF DEATH: 110		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.	
		CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal.	
Skin	Hair Thin/Absent, Extremities/snout	Tissue is missing.	
		- Skin from extremity and snout is missing.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Liver
Lungs	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4108
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Coagulating G1 Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4109
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	<p>CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.</p> <p>CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.</p> <p>CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.</p> <p>MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.</p>
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Skin	Hair Thin/Absent, Extremities/snout	<p>Tissue is missing.</p> <p>- Skin from extremity and snout is missing.</p>

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Adrenal Glands Brain Coagulating Gl Right Epididymis Lungs

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STATUS: Final phase sacrifice			SEX: Male		ANIMAL: 4109
PHASE DAY OF DEATH: 110			PHASE: Dosing phase		GROUP: 4
Tissue	Gross Observations/Comments		Microscopic Observations/Comments		
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis	

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl	No gross observations on tissue.	SECRETORY PRODUCT: DECREASED, Slight.
Kidneys	Dilated Pelvis, Right/ (post-fixation observation)	Examined; 1 correlation found: PELVIS: DILATED, UNILATERAL, Slight. CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal. CORTEX/CORTICO-MEDULLARY JUNCTION: TUBULAR LUMENS- GRANULAR CASTS, Minimal. MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal. - Dilated right renal pelvis noted at trim.
Lungs	No gross observations on tissue.	ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4110
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Pituitary gland
Prostate	Spleen	Seminal vesicles	Right Testis	

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.
Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal. MEDULLA: TUBULAR LUMEN(S) -EOSINOPHILIC MATERIAL, Minimal.
Lungs	No gross observations on tissue.	ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Right Epididymis	Liver	Pituitary gland
Prostate	Spleen	Seminal vesicles	Right Testis	

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4112
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4113
PHASE DAY OF DEATH: 110	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4114
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4115
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating G1 Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4116
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4117
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Moderate. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.
Lungs	Discolored, All lobes, Tan, Foci, <= 0.1 cm, Moderate	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Multifocal, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Liver
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4118
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal. MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4119
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4120
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4121
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice		SEX: Male	ANIMAL: 4122
PHASE DAY OF DEATH: 111		PHASE: Dosing phase	GROUP: 4
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Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Kidneys	No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Slight.	
		CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight.	
		CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.	
Skin	Hair Thin/Absent, Extremities/snout	Tissue is missing.	
		- Skin from extremity and snout is missing.	

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Right Epididymis	Liver
Lungs	Pituitary gland	Prostate	Spleen	Seminal vesicles
Right Testis				

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4123
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4124
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4125
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Right Epididymis	. . . No gross observations on tissue.	INTERSTITIAL MONONUCLEAR CELL INFILTRATE, Focal, Minimal. - Proximal caput of epididymis has interstitial mononuclear cell infiltrate.
Kidneys No gross observations on tissue.	CORTEX: PROXIMAL CONVOLUTED TUBULAR EPITHELIUM-EOSINOPHILIC/HYALINE GRANULES, Moderate. CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Slight. CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal. MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Coagulating Gl	Liver	Lungs
Pituitary gland	Prostate	Spleen	Seminal vesicles	Right Testis

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STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4126
PHASE DAY OF DEATH: 111	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:
Coagulating Gl Right Epididymis Prostate Seminal vesicles Right Testis

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STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1601
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Lungs
Oviducts/Fallop	Ovaries	Pituitary gland	Spleen	Uterus
Vagina				

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STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1605
PHASE DAY OF DEATH: 120	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal.
Skin	Hair Thin/Absent, General	Tissue is missing. - Skin from extremity and snout is missing.
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight. LUMEN: DILATED, BILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1612
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Lungs
Oviducts/Fallop	Ovaries	Pituitary gland	Spleen	Uterus
Vagina				

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Individual Animal Gross and Microscopic Observations

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STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1613	
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Lungs	No gross observations on tissue.	ATELECTASIS, UNILATERAL, Minimal.	
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, Slight.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

-----		-----	
STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1614	
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Kidneys	No gross observations on tissue.	CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal.	
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.	

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Gasoline TAME Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats Individual Animal Gross and Microscopic Observations

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1617
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Lungs
Oviducts/Fallop	Ovaries	Pituitary gland	Spleen	Vagina

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Individual Animal Gross and Microscopic Observations

-----		-----	
STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1618	
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
-----		-----	
Adrenal Glands	No gross observations on tissue.	Tissue is unremarkable (with comment).	
		- One medulla absent.	
Uterus	No gross observations on tissue.		
		MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Minimal.	

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Brain	Kidneys	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1619
PHASE DAY OF DEATH: 122	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Skin	Hair Thin/Absent, Extremities/snout Hair Thin/Absent, General	Tissue is missing. - Skin from extremity, snout, and general body is missing.
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Lungs	Oviducts/Fallop	Ovaries
Pituitary gland	Spleen	Vagina		

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Tissue	Gross Observations/Comments	Microscopic Observations/Comments
STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 1621
PHASE DAY OF DEATH: 123	PHASE: Dosing phase	GROUP: 1
Skin	Hair Thin/Absent, Extremities/snout	Tissue is missing.
		- Skin from extremity and snout is missing.
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Lungs
Oviducts/Fallop	Ovaries	Pituitary gland	Spleen	Vagina

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STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 1623
PHASE DAY OF DEATH: 123		PHASE: Dosing phase	GROUP: 1
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Uterus	Vagina

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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4610
PHASE DAY OF DEATH: 120		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Kidneys	No gross observations on tissue.	CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.	
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.	
Lungs	Discolored, All lobes, Tan, Foci, <= 0.1 cm, Slight	Tissue is unremarkable. Examined; no correlation found	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Oviducts/Fallop	Ovaries	Pituitary gland
Spleen	Uterus	Vagina		

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Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4611
PHASE DAY OF DEATH: 122		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Kidneys	No gross observations on tissue.	CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Minimal.	
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.	
Lungs	Discolored, All lobes, Tan, Foci, <= 0.1 cm, Slight	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Oviducts/Fallop	Ovaries	Pituitary gland
Spleen	Uterus	Vagina		

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Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 4612
PHASE DAY OF DEATH: 123	PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Kidneys	No gross observations on tissue.	CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Slight.
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Lungs	No gross observations on tissue.	ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Oviducts/Fallop	Ovaries	Pituitary gland
Spleen	Uterus	Vagina		

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Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4612
PHASE DAY OF DEATH: 123		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Kidneys	No gross observations on tissue.	CORTEX/CORTICO-MEDULLARY JUNCTION: MINERAL DEPOSIT(S), Slight.	
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.	
Lungs	No gross observations on tissue.	ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.	

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Oviducts/Fallop	Ovaries	Pituitary gland
Spleen	Uterus	Vagina		

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STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4613
PHASE DAY OF DEATH: 124		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Lungs	No gross observations on tissue.	ATELECTASIS, UNILATERAL, Moderate.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Uterus	Vagina

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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4614
PHASE DAY OF DEATH: 121		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Adrenal Glands	No gross observations on tissue.	CONGESTION, BILATERAL, Minimal.	
Kidneys	Dilated Pelvis, Right, Slight	Examined; 1 correlation found: PELVIS: DILATED, Minimal.	
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.	
Uterus	Cyst, Right horn, Clear, Slight/ 0.3 cm dia	Examined; no correlation found MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Brain	Lungs	Oviducts/Fallop	Ovaries	Pituitary gland
Spleen	Vagina			

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Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 4615
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 4

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Adrenal Glands	No gross observations on tissue.	CONGESTION, BILATERAL, Slight.
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Brain	Kidneys	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Gasoline TAME Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats Individual Animal Gross and Microscopic Observations

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Liver	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATES, Minimal.
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight. LUMEN: DILATED, BILATERAL, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4619
PHASE DAY OF DEATH: 122		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Uterus	No gross observations on tissue.		
		MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.	
		LUMEN: DILATED, BILATERAL, Minimal.	

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Kidneys	Liver	Lungs
Oviducts/Fallop	Ovaries	Pituitary gland	Spleen	Vagina

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice		SEX: Female	ANIMAL: 4620
PHASE DAY OF DEATH: 121		PHASE: Dosing phase	GROUP: 4
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	
Kidneys	No gross observations on tissue.	CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC, Minimal. MEDULLA: TUBULAR LUMEN(S)-EOSINOPHILIC MATERIAL, Slight. CORTICAL TUBULAR LUMENS: EOSINOPHILIC MATERIAL, Slight.	
Uterus	No gross observations on tissue.	MURAL HISTIOCYTIC AGGREGATE WITH BROWN PIGMENT, UNILATERAL, Slight.	

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Vagina	

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Individual Animal Gross and Microscopic Observations

-----		-----	
STATUS: Final phase sacrifice	SEX: Female	ANIMAL: 4626	
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 4	
-----		-----	
Tissue	Gross Observations/Comments	Microscopic Observations/Comments	

Kidneys	No gross observations on tissue.		
	CORTEX: INTERSTITIAL MONONUCLEAR CELL INFILTRATES, Minimal.		

Tissues without comment under Gross Observations were within normal limits at necropsy.
The following tissues were unremarkable microscopically:

Adrenal Glands	Brain	Liver	Lungs	Oviducts/Fallop
Ovaries	Pituitary gland	Spleen	Uterus	Vagina

AUDITED FINAL REPORT**Study Phase: Sperm Analysis****Test Site Phase Reference Number: 3075-128****Testing Facility Study Number: 00-4202****Sponsor Reference Number: 211-EtOH-1G****GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION
REPRODUCTION TOXICITY STUDY IN RATS****TEST SITE:**

Charles River Laboratories,
Pathology Associates (PAI) - Maryland
15 Worman's Mill Court, Suite I
Frederick, MD 21701

TESTING FACILITY:

Huntingdon Life Sciences (HLS)
Mettlers Road
P.O. Box 2360
East Millstone, NJ 08875-2360

SPONSOR:

American Petroleum Institute (API)
1220 L Street, Northwest
Washington, D.C. 20005-4070

07-MAR-2008

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CHARLES RIVER
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I. QUALITY ASSURANCE STATEMENT

Gasoline TAME Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats

Study Number: 00-4202

QUALITY ASSURANCE STATEMENT

This sperm analysis project has been inspected and audited by the PAI Quality Assurance Unit (QAU) as required by the Good Laboratory Practice (GLP) regulations promulgated by the U.S. Environmental Protection Agency (EPA). The sperm analysis report is an accurate reflection of the recorded data. The following table is a record of the inspections/audits performed and reported by the QAU.

<u>Date of Inspection</u>	<u>Phase Inspected</u>	<u>Date Findings Reported to Study Pathologist/PAI Management</u>	<u>Date Findings Reported to Study Director/Study Director Management</u>
12-Dec-2001	Sperm Motility	12-Dec-2001	08-Jan-2002
11-Jan-2002	Individual Animal Data	11-Jan-2002	11-Jan-2002
11-Jan-2002	Draft Sperm Analysis Report	11-Jan-2002	11-Jan-2002
31-Jul-2002	2 nd Draft Sperm Analysis Report	31-Jul-2002	31-Jul-2002
10-Oct-2007	Final Sperm Analysis Report	10-Oct-2007	07-Mar-2008

A. Christine Wright

A. Christine Wright
Quality Assurance Auditor

07-Mar-2008

Date

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Gasoline TAME Vapor Condensate:
A One-Generation Whole-Body Inhalation Reproduction Toxicity
Study in Rats

II. MATERIALS AND METHODS

A. Sample Collection

All surviving male rats were euthanized by exsanguination following anesthesia with inhaled carbon dioxide after the last F₁ litters were delivered. For all animals, the abdominal cavity was opened and the reproductive organs exposed. For motility assessment, the left vas deferens was dissected away from the testis and immediately placed in a petri dish containing 10 ml of a solution consisting of 1% Bovine Serum Albumin dissolved in Phosphate Buffered Saline. The solution was prewarmed to a temperature of approximately 38°C. A minimum 3-minute period was allowed for the sperm to swim out.

For total sperm count assessment, the left epididymis and left testis were then removed and placed on dry ice. The frozen epididymides and testes were then transferred to Charles River Laboratories Pathology Associates (PAI) - Maryland, Frederick, MD (formerly known as Pathology Associates International until January 8, 2001) and stored frozen at -70°C until evaluation for caudal epididymal sperm count and homogenization-resistant testicular spermatid count.

Only the control and high exposure animals were examined for percent motility, total epididymal sperm count, testicular spermatid count, and sperm morphology.

B. Sperm Motility Evaluation

Following the swim out period, a sperm sample was obtained using a 100 µm deep cannula. The cannula was immediately loaded into the prewarmed stage of the Hamilton Thorne IVOS (Ver. 10.9i) automated sperm analyzer. The analyzer automatically selected five fields and each motion image was digitally saved and permanently stored on optical media. The images were subsequently analyzed and the percent motility determined for each animal.

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C. Caudal Epididymis Weight and Total Sperm Count Determination

Each frozen epididymis was removed from the freezer, thawed and the caudal section was trimmed and weighed. Each frozen testis was removed from the freezer, thawed, the tunica removed and the testicular parenchyma weighed. The cauda epididymis and testicular parenchyma were homogenized in deionized water and the suspensions were transferred to plastic test tubes and vortexed. A 100 μ l sample was transferred to a violet reaction vial containing a Hoechst dye (H33342) which uniquely stains the head of the sperm. A sample of the stained sperm was placed into a 20 μ m deep Cell-Vu glass slide which was loaded into the Hamilton Thorne IVOS analyzer (Ver. 10.9i). Twenty fields were automatically selected by the analyzer for each animal and the number of homogenization-resistant testicular spermatids and cauda epididymal sperm determined. The counts reported were adjusted for caudal epididymal or testicular weight.

D. Sperm Morphology Evaluation

Two Eosin stained slides were prepared for each animal from the caudal epididymis total count preparation. The slides were evaluated and a minimum of 200 sperm cells/animal was examined for morphological development.

E. Statistical Analyses

The means and standard deviations for the sperm motility, caudal epididymal sperm count, testicular homogenization-resistant spermatid count and sperm morphology data were calculated and compared across groups using the Kruskal-Wallis nonparametric ANOVA test. If a significant effect occurred ($p < 0.05$), the Mann-Whitney U test was used for pair-wise comparisons of each treated group to the control group. Animals with fewer than 25 sperm cells present in the motility analysis were excluded from the group mean calculation and subsequent statistical analysis. Animals with at least 25 sperm cells were included in the group mean calculation and subsequent statistical analysis; however, animals with fewer than 50 cells were identified to have a low count. The mean caudal epididymis weight for each group was calculated and compared using one-way analysis of variance (ANOVA) technique. If ANOVA is significant, Dunnett's test was used for pair-wise comparisons of each treated group to the control group at the 5% and 1% risk levels. Statistical analyses were performed using an IBMTM compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

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F. GLP Compliance Statement

The portion of this study performed by PAI was conducted in compliance with US EPA 79.60, CFR Vol. 59, No. 122, 27 June 1994.

G. Sample and Data Archiving

Frozen epididymis and testis samples not processed for sperm count determination were transferred to and stored frozen at -70°C in PAI's long-term archive facility. The optical media used for permanent storage of the sperm motility images, raw data printouts from the sperm motility, epididymal and testicular sperm count and sperm morphology analysis, as well as any supporting documentation and the sperm morphology slides will be maintained at PAI until the study has been completed. Upon finalizing the report, all non-frozen study material will be returned to HLS for archiving. Disposition of the frozen tissue samples will be directed by correspondence from HLS.

III. RESULTS

A. Sperm Motility

Table 1 (Summary Data)
Appendix A (Individual Data)

No apparent treatment-related effects were observed in the sperm motility data. Group mean values were comparable between the control and high dose groups and ranged from 88% to 92%.

B. Total Sperm Count

Table 1 (Summary Data)
Appendix A (Individual Data)

The number of sperm per gram of caudal epididymis and number of spermatids per gram of testis were comparable between the control and high dose groups. Group mean values ranged from 855.7 to 905.6 million sperm/gram for the epididymal sperm count and 81.2 to 93.5 million spermatids/gram for the homogenization-resistant testicular count.

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C. Sperm Morphology

Table 1 (Summary Data)
Appendix B (Individual Data)

A low incidence of head abnormalities was observed for animals in the control and high dose groups. Group mean values ranged from 1.6 to 1.9 percent abnormal sperm. No treatment related differences were observed.

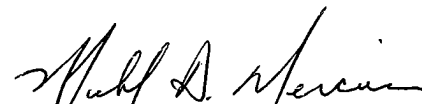
D. Caudal Epididymis Weight

Table 1 (Summary Data)
Appendix A (Individual Data)

No apparent treatment-related effects were observed in the caudal epididymis weight data. Group mean values were 0.28 grams. No biologically meaningful differences were observed.

IV. DISCUSSION AND CONCLUSIONS

Mean percent motility, caudal epididymal sperm count, homogenization-resistant testicular spermatid count, sperm morphology and caudal epididymis weight were not affected by treatment with Gasoline TAME Vapor Condensate at a dose level of 20,000 mg/m³. No biologically meaningful differences were observed between the study groups.



Michael D. Mercieca, B.S.
Reproductive Toxicologist
Charles River Laboratories
Pathology Associates (PAI) - Maryland

07-MAR-2008

Date

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V. REFERENCES

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Audited Final Report
HLS STUDY NO.: 00-4202

TABLE 1

GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF MALE REPRODUCTIVE PARAMETERS

Group: Level:	GTVC ^a (mg/m ³)	I 0	IV 20,000
<hr/>			
MOTILITY (%)			
Mean		92	88
SD		9	10
N		26	24
EPIDIDYMAL COUNT			
(MILLION SPERM/GRAM)			
Mean		905.6	855.7
SD		307.1	210.0
N		26	26
TESTICULAR COUNT			
(MILLION SPERMATIDS/GRAM)			
Mean		81.2	93.5
SD		24.9	27.3
N		26	26
SPERM MORPHOLOGY ^b			
(% ABNORMAL)			
Mean		1.6	1.9
SD		0.6	0.6
N		26	26
CAUDAL EPIDIDYMIS WEIGHTS			
(GRAM)			
Mean		0.28	0.28
SD		0.03	0.03
N		26	26

^aGASOLINE TAME VAPOR CONDENSATE.

^bMEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

NONE SIGNIFICANTLY DIFFERENT FROM CONTROL.

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APPENDIX A

GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CAUDAL EPIDIDYMIS WEIGHT,
SPERM MOTILITY AND SPERM COUNT DATA

Group I: 0 mg/m³ (GASOLINE TAME VAPOR CONDENSATE)

Animal No.	Caudal Epididymis Weight (g)	Motility (%)	S P E R M C O U N T	
			Caudal Epididymal (million sperm/gram)	Homogenization Resistant Testicular
1101	0.32	96	1182.4	104.4
1102	0.28	98 ^a	524.8	151.7
1103	0.25	80	555.4	75.8
1104	0.29	88	722.2	64.7
1105	0.31	100	1123.5	108.4
1106	0.25	98	314.7	92.6
1107	0.34	95	714.7	46.9
1108	0.28	96	628.1	33.5
1109	0.33	68	718.8	70.0
1110	0.26	96	1312.8	77.9
1111	0.30	91	1110.8	55.6
1112	0.24	100	810.0	93.1
1113	0.31	98	1000.3	97.6
1114	0.24	94	993.2	123.8
1115	0.26	90	631.9	114.3
1116	0.24	98	1393.3	64.5
1117	0.34	98	1388.5	64.9
1118	0.26	92	707.6	69.7
1119	0.22	95	536.5	72.7
1120	0.28	79	1227.3	86.4
1121	0.27	89	1178.5	78.1
1122	0.29	95	909.7	85.0
1123	0.33	63	1335.9	70.1
1124	0.25	97	1106.2	73.9
1125	0.28	93	710.8	66.3
1126	0.26	95	707.6	70.5

^aFEWER THAN 50 SPERM CELLS COUNTED IN 5 FIELDS ANALYZED.

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APPENDIX A

GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL CAUDAL EPIDIDYMIS WEIGHT,
SPERM MOTILITY AND SPERM COUNT DATA

Group IV: 20,000 mg/m³ (GASOLINE TAME VAPOR CONDENSATE)

Animal No.	Caudal Epididymis Weight (g)	Motility (%)	S P E R M C O U N T	
			Caudal Epididymal (million sperm/gram)	Homogenization Resistant Testicular
4101	0.24	97	747.3	162.0
4102	0.28	96 ^a	991.8	144.0
4103	0.28	90	582.7	115.7
4104	0.29	91	642.4	72.0
4105	0.27	95	904.2	85.1
4106	0.23	^b	774.7 ^c	105.4 ^c
4107	0.29	65	770.1	96.8
4108	0.27	94	732.8	57.5
4109	0.24	72	959.4	64.1
4110	0.27	86	981.4	109.8
4111	0.29	83	778.0	54.5
4112	0.30	87	432.0	78.7
4113	0.29	92	1113.2	68.2
4114	0.33	84	757.4	62.9
4115	0.25	95	907.2	82.8
4116	0.28	94	1140.6	63.3
4117	0.31	^b	1112.3	106.1
4118	0.28	94	698.4	136.5
4119	0.24	97	617.1	93.0
4120	0.32	94	1135.4	70.8
4121	0.29	67	682.3	100.2
4122	0.27	83	865.7	108.9
4123	0.26	94	1161.5	87.2
4124	0.25	98	606.3	96.5
4125	0.27	95	1217.1	92.9
4126	0.31	67	936.9	117.3

^aIMAGE FILE 4102.01b WAS CORRUPTED; ONLY 4 IMAGES WERE AVAILABLE FOR ANALYSIS FOR THIS ANIMAL.

^bFEWER THAN 25 SPERM CELLS COUNTED IN 5 FIELDS ANALYZED; EXCLUDED FROM STATISTICAL ANALYSIS.

^cLEFT EPIDIDYMIS AND LEFT TESTIS PRESERVED FOR POSSIBLE HISTOPATHOLOGICAL EVALUATION; RIGHT EPIDIDYMIS AND RIGHT TESTIS USED FOR SPERM COUNT DETERMINATION.

APPENDIX B

GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL SPERM MORPHOLOGY DATA

Group I: 0 mg/m³ (GASOLINE TAME VAPOR CONDENSATE)

Animal No.	Normal	-----H e a d-----				-----T a i l-----			
		Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	Other
1101	197	3	0	0	0	0	0	0	0
1102	196	4	0	0	0	0	0	0	0
1103	196	4	0	0	0	0	0	0	0
1104	195	5	0	0	0	0	0	0	0
1105	196	3	1	0	0	0	0	0	0
1106	197	3	0	0	0	0	0	0	0
1107	198	2	0	0	0	0	0	0	0
1108	197	2	1	0	0	0	0	0	0
1109	196	4	0	0	0	0	0	0	0
1110	196	3	1	0	0	0	0	0	0
1111	198	2	0	0	0	0	0	0	0
1112	197	2	1	0	0	0	0	0	0
1113	195	3	2	0	0	0	0	0	0
1114	198	2	0	0	0	0	0	0	0
1115	197	3	0	0	0	0	0	0	0
1116	196	2	2	0	0	0	0	0	0
1117	198	1	1	0	0	0	0	0	0
1118	196	4	0	0	0	0	0	0	0
1119	197	3	0	0	0	0	0	0	0
1120	198	2	0	0	0	0	0	0	0
1121	198	2	0	0	0	0	0	0	0
1122	195	4	1	0	0	0	0	0	0
1123	199	1	0	0	0	0	0	0	0
1124	196	4	0	0	0	0	0	0	0
1125	197	3	0	0	0	0	0	0	0
1126	199	1	0	0	0	0	0	0	0

APPENDIX B

GASOLINE TAME VAPOR CONDENSATE:
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL SPERM MORPHOLOGY DATA

Group IV: 20,000 mg/m³ (GASOLINE TAME VAPOR CONDENSATE)

Animal No.	Normal	-----H e a d-----				-----T a i l-----			
		Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	Other
4101	196	2	1	1	0	0	0	0	0
4102	199	1	0	0	0	0	0	0	0
4103	196	3	1	0	0	0	0	0	0
4104	195	3	1	1	0	0	0	0	0
4105	196	2	2	0	0	0	0	0	0
4106	196	4	0	0	0	0	0	0	0
4107	195	3	2	0	0	0	0	0	0
4108	197	2	1	0	0	0	0	0	0
4109	196	4	0	0	0	0	0	0	0
4110	196	3	1	0	0	0	0	0	0
4111	195	5	0	0	0	0	0	0	0
4112	197	2	1	0	0	0	0	0	0
4113	195	4	1	0	0	0	0	0	0
4114	194	4	2	0	0	0	0	0	0
4115	197	3	0	0	0	0	0	0	0
4116	198	2	0	0	0	0	0	0	0
4117	197	3	0	0	0	0	0	0	0
4118	198	1	1	0	0	0	0	0	0
4119	196	4	0	0	0	0	0	0	0
4120	196	3	1	0	0	0	0	0	0
4121	198	2	0	0	0	0	0	0	0
4122	196	4	0	0	0	0	0	0	0
4123	194	3	3	0	0	0	0	0	0
4124	195	3	1	1	0	0	0	0	0
4125	197	3	0	0	0	0	0	0	0
4126	198	2	0	0	0	0	0	0	0

	Huntingdon Life Sciences Historical Control Data Histopathology of Reproductive Organs East Millstone, New Jersey	Appendix BB
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	TOTAL	% of total	Individual Study Data - Male Animals						
		examined							
Study Number			00-4202	00-4203	00-4204	00-4205	00-4206	00-4207	00-4208
MICROSCOPIC FINDINGS									
COAGULATING GLAND									
NUMBER EXAMINED	86		26	10	10	10	10	10	10
SECRETORY PRODUCT: DECREASED	1	1.2	1	0	0	0	0	0	0
PROSTATE									
NUMBER EXAMINED	86		26	10	10	10	10	10	10
INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION	15	17.4	0	0	9	0	6	0	0
MONONUCLEAR CELL INFILTRATE	4	4.7	0	0	2	0	2	0	0
ACINAR LUMENS: CORPORA AMYLACIA/MINERALIZED GRANULES	1	6.7	0	0	0	0	0	0	1
PURULENT/CHRONIC PURULENT INFLAMMATION/ABSCESS(ES)/CHRONIC - ABSCESS (ES)	1	1.2	0	0	0	0	0	0	1
LEFT EPIDIDYMIS									
NUMBER EXAMINED	1		0	0	1 ^a	0	0	0	0
SPERM GRANULOMA	1	100.0			1				
RIGHT EPIDIDYMIS									
NUMBER EXAMINED	85		26	10	9	10	10	10	10
NO ABNORMALITIES DETECTED	85	100.0	26	0	9	10	10	10	10
RIGHT TESTIS									
NUMBER EXAMINED	86		26	10	10	10	10	10	10
GERMINAL EPITHELIUM: DEGENERATION/ATROPHY	1	1.2	0	0	0	0	1	0	0
SEMINAL VESICLES									
NUMBER EXAMINED	86		26	10	10	10	10	10	10
SECRETORY PRODUCT: DECREASED	2	2.3	0	0	1	0	0	0	1

^aThe right epididymides were examined only unless an abnormal finding was noted on the left epididymis.

	Huntingdon Life Sciences Historical Control Data Histopathology of Reproductive Organs East Millstone, New Jersey	Appendix BB
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Study Code Study Number		TOTAL	% of total examined	Individual Study Data - Female Animals						
				00-4202	00-4203	00-4204	00-4205	00-4206	00-4207	00-4208
MICROSCOPIC FINDINGS										
OVARIES										
	NUMBER EXAMINED	70		10	10	10	10	10	10	10
CYST		1	1.4	0	0	0	0	0	1	
OVIDUCT/FALLOPIAN TUBES										
	NUMBER EXAMINED	60		10	10	10	10	0	10	10
LUMEN: MONONUCLEAR CELLS		3	5.0	0	0	0	3		0	0
LUMEN: CELLULAR DEBRIS		1	33.3	0	1	0	0		0	0
UTERUS										
	NUMBER EXAMINED	70		10	10	10	10	10	10	10
LUMEN: DILATED		7	10.0	1	1	0	0	5	0	0
MURAL HISTIOCYTES WITH OR WITHOUT BROWN PIGMENT		25	35.7	7	0	4	3	4	3	4
VAGINA										
	NUMBER EXAMINED	70		10	10	10	10	10	10	10
CYST		1	1.4	0	0	0	1	0	0	0

	Certificates of Analysis	Appendix CC
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1. Feed Certificates of Analysis.....	619
2. Water Certificates of Analysis	647
3. Bedding Certificates of Analysis.....	654



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0118944-3
 Lot Code: JUN 11 01 2C
 Entered: 6/13/2001

Assay	Analysis	Units
PROTEIN	21.2	%
FAT ACID (HYDRO.)	5.69	%
FIBER (CRUDE)	4.35	%
ARSENIC	0.225	PPM
CADMIUM	0.051	PPM
CALCIUM	0.956	%
LEAD	0.171	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.613	%
SELENIUM	0.313	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.06
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed.

The use of the term "Less Than" does not imply that traces of analyte were present.



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0119450-3
 Lot Code: JUN 21 01 1C
 Entered: 6/22/2001

Assay	Analysis	Units
PROTEIN	21.2	%
FAT ACID (HYDRO.)	5.83	%
FIBER (CRUDE)	4.11	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.071	PPM
CALCIUM	0.945	%
LEAD	0.186	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.706	%
SELENIUM	0.312	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.04
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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The use of the term "Less Than" does not imply that traces of analyte were present.



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0121626-4
 Lot Code: AUG 01 01 3B
 Entered: 8/1/2001

Assay	Analysis	Units
PROTEIN	21	%
FAT ACID (HYDRO.)	5.84	%
FIBER (CRUDE)	4.33	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.066	PPM
CALCIUM	0.996	%
LEAD	0.156	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.718	%
SELENIUM	0.321	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.03
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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The use of the term "Less Than" does not imply that traces of analyte were present.



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0119990-1
 Lot Code: JUL 01 01 3A
 Entered: 7/3/2001

Assay	Analysis	Units
PROTEIN	21.2	%
FAT ACID (HYDRO.)	5.66	%
FIBER (CRUDE)	4.13	%
ARSENIC	0.364	PPM
CADMIUM	0.07	PPM
CALCIUM	1.01	%
LEAD	0.185	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.756	%
SELENIUM	0.310	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.04
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed.

The use of the term "Less Than" does not imply that traces of analyte were present.



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0119990-2
 Lot Code: JUL 01 01 3B
 Entered: 7/3/2001

Assay	Analysis	Units
PROTEIN	21	%
FAT ACID (HYDRO.)	5.31	%
FIBER (CRUDE)	4.44	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.067	PPM
CALCIUM	0.913	%
LEAD	0.183	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.744	%
SELENIUM	0.286	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.03
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0119450-1
 Lot Code: JUN 21 01 1A
 Entered: 6/22/2001

Assay	Analysis	Units
PROTEIN	21.2	%
FAT ACID (HYDRO.)	5.51	%
FIBER (CRUDE)	4.5	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.07	PPM
CALCIUM	0.881	%
LEAD	0.184	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.689	%
SELENIUM	0.291	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0122383-3
 Lot Code: AUG 13 01 3C
 Entered: 8/15/2001

Assay	Analysis	Units
PROTEIN	20.9	%
FAT ACID (HYDRO.)	5.67	%
FIBER (CRUDE)	4.62	%
ARSENIC	0.223	PPM
CADMIUM	0.052	PPM
CALCIUM	0.918	%
LEAD	0.147	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.629	%
SELENIUM	0.263	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0122383-2
 Lot Code: AUG 13 01 3B
 Entered: 8/15/2001

Assay	Analysis	Units
PROTEIN	21.2	%
FAT ACID (HYDRO.)	5.33	%
FIBER (CRUDE)	4.68	%
ARSENIC	0.229	PPM
CADMIUM	0.055	PPM
CALCIUM	0.901	%
LEAD	0.163	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.666	%
SELENIUM	0.250	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.03
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0123118-2
 Lot Code: AUG 28 01 2B
 Entered: 8/30/2001

Assay	Analysis	Units
PROTEIN	22.6	%
FAT ACID (HYDRO.)	5.59	%
FIBER (CRUDE)	4.8	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.055	PPM
CALCIUM	0.869	%
LEAD	0.14	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.780	%
SELENIUM	0.129	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.07
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

The term "Less Than" is used to signify the lower limit of quantitation of the procedure under the conditions employed.

The use of the term "Less Than" does not imply that traces of analyte were present.



Return To Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0123118-3
 Lot Code: AUG 28 01 2C
 Entered: 8/30/2001

Assay	Analysis	Units
PROTEIN	22.6	%
FAT ACID (HYDRO.)	5.46	%
FIBER (CRUDE)	4.97	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.057	PPM
CALCIUM	0.784	%
LEAD	0.144	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.763	%
SELENIUM	0.242	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.05
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0123905-1
 Lot Code: SEP 12 01 1A
 Entered: 9/14/2001

Assay	Analysis	Units
PROTEIN	21.6	%
FAT ACID (HYDRO.)	5.55	%
FIBER (CRUDE)	5.25	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.051	PPM
CALCIUM	0.921	%
LEAD	0.145	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.875	%
SELENIUM	0.293	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0124569-2
 Lot Code: OCT 01 01 1B
 Entered: 9/28/2001

Assay	Analysis	Units
PROTEIN	21.7	%
FAT ACID (HYDRO.)	5.79	%
FIBER (CRUDE)	4.31	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.053	PPM
CALCIUM	0.953	%
LEAD	0.176	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.681	%
SELENIUM	0.263	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0125416-2
 Lot Code: OCT 10 01 1B
 Entered: 10/12/2001

Assay	Analysis	Units
PROTEIN	21	%
FAT ACID (HYDRO.)	5.58	%
FIBER (CRUDE)	4.45	%
ARSENIC	<0.200	PPM
CADMIUM	0.059	PPM
CALCIUM	0.913	%
LEAD	0.174	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.602	%
SELENIUM	0.295	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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The use of the term "Less Than" does not imply that traces of analyte were present.



Return to Certified Analysis Retrieval

Product Code: 5002M
 Product Desc: CERTIFIED RODENT DIET MEAL
 Lab Number: L0125416-3
 Lot Code: OCT 10 01 1C
 Entered: 10/12/2001

Assay	Analysis	Units
PROTEIN	21.3	%
FAT ACID (HYDRO.)	5.75	%
FIBER (CRUDE)	4.2	%
ARSENIC	<0.200	PPM
CADMIUM	0.057	PPM
CALCIUM	1.01	%
LEAD	0.174	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.643	%
SELENIUM	0.309	PPM

ORGANOPHOSPHATES	PPM	ORGANOPHOSPHATES	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	LESS THAN 0.02
Methyl Parathion	LESS THAN 0.02	Parathion	LESS THAN 0.02
Thimet	LESS THAN 0.02	Thiodan	LESS THAN 0.02
Trithion	LESS THAN 0.02		

PESTICIDES AND PCB	PPM	PESTICIDES AND PCB	PPM
Aldrin	LESS THAN 0.02	Alpha-BHC	LESS THAN 0.02
Beta-BHC	LESS THAN 0.02	Chlordane	LESS THAN 0.02
DDE	LESS THAN 0.02	DDT	LESS THAN 0.02
Delta-BHC	LESS THAN 0.02	Dieldrin	LESS THAN 0.02
Endrin	LESS THAN 0.02	HCB	LESS THAN 0.02
Heptachlor	LESS THAN 0.02	Heptachlor Epoxide	LESS THAN 0.02
Lindane	LESS THAN 0.02	Methoxychlor	LESS THAN 0.02
Mirex	LESS THAN 0.02	PCB	LESS THAN 0.15

Aflatoxin	Aflatoxins	LESS THAN 5 PPB
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No notes.

For additional information, please contact:

- 1) Customer Service at (314) 962-1310 -- for assay methodology
- 2) Dr. Dorrance Haught at (314) 768-4362 -- for nutritional interpretation
- 3) Richmond, IN Manufacturing Plant at (765) 962-9561 -- all other questions

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The use of the term "Less Than" does not imply that traces of analyte were present.

Analysis Report



Page 1 of 1

Lancaster Laboratories Sample No. PW 3725257

Collected: 11/12/2001 10:05 by GA

Account Number: 02698

Submitted: 11/12/2001 17:30

Huntingdon Life Sciences

Reported: 11/29/2001 at 21:33

PO Box 2360

Discard: 12/14/2001

Mettlers Road

#2 INH 803 Grab Water Sample

East Millstone NJ 08875-2360

Animal Drinking Water

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	< 1.	1.	cfu/ml	n.a.
	This result is an estimated count. All plates used to calculate the result are outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.					
00564	Pseudomonas aeruginosa	n.a.	Absent	1.	/gram	n.a.
	A 100 gram sample was analyzed for Pseudomonas aeruginosa. The result was negative.					
06477	Total Coliform	n.a.	See Below	1.	/100ml	n.a.
	Total Coliform	Negative	/100ml			
	E. coli	Negative	/100ml			
	The water this test result represents is considered BACTERIOLOGICALLY SAFE for drinking according to standards established by the Environmental Protection Agency (EPA). If the source of your water supply is a well, we recommend that you retest your well water every 6 to 12 months to verify that it continues to be bacteriologically safe.					

State of New Jersey Lab Certification No. 77011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Standard Methods, 19th ed 1995	1	11/12/2001 20:15	Connie D. Rhodes	n.a.
00564	Pseudomonas aeruginosa	Reference: USP, 23 rd Ed 1995	1	11/13/2001 08:20	Earl R. Custer	n.a.
06477	Total Coliform	Standard Methods 19th ed, 1995	1	11/12/2001 20:50	Connie D. Rhodes	n.a.

EXACT COPY

@OHHaroz

REVIEWED

m 4 Dec 01



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report



Page 1 of 1

Lancaster Laboratories Sample No. PW 3681567

Collected: 09/06/2001 10:45 by SA

Account Number: 02698

Submitted: 09/06/2001 18:50

Huntingdon Life Sciences

Reported: 09/21/2001 at 15:54

PO Box 2360

Discard: 10/06/2001

Mettlers Road

#1 Rm. 803 INH Grab Water Sample

East Millstone NJ 08875-2360

Animal Drinking Water.

803IN SDG#: ANI27-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method) The action level for lead in the lead and copper rule is 0.015 mg/l. Because health effects are possible, especially in young children, EPA guidance recommends that corrective action be taken when the action level is met or exceeded.	7439-92-1	0.0062	0.00077	mg/l	1
01753	Copper The action level for copper in the lead and copper rule is 1.3 mg/l. Copper at these levels is not considered a direct health hazard, but can affect the taste of the water. Excessive copper levels may indicate a corrosive water if the system has copper plumbing.	7440-50-8	0.0580	0.0024	mg/l	1

State of New Jersey Lab Certification No. 77011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	EPA 200.9	1	09/14/2001 23:35	Jessica L. Boyd	1
01753	Copper	EPA 200.7	1	09/14/2001 19:57	Brian L. Boyd	1
05281	Undigested Sample Prep	EPA 200.9	1	09/13/2001 08:45	Deborah A. Krady	1

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REVIEWED
M 27 Sep 01



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Elizabethtown Water Company **Physical & Chemical Analyses**

Date August 7, 2001General Source Raritan-Millstone PlantSample No. 1 Plant Delivered Water - 7:45 a.m. 8-7-01, MT

Sample No. 2

Sample No. 3

Sample No. 4

Sample No. 5

Sample No. 6

Sample No. 7

Sample No. 8

Parameter	MCL (mg/l)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temperature ° F	-	82							
Turbidity (NTU)	0.5 NTU	0.25							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	3.5/2Cc							
Threshold Taste	3 TTN *	3.2							
Conductivity (micromhos / cm)	-	310							
Hardness, Total (as mg / l CaCO ₃)	250 mg / l *	106							
Alkalinity	-	53							
pH	6.5-8.5 *	7.1							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.30							
Calcium (as mg / l CaCO ₃)	-	70							
Magnesium (as mg / l CaCO ₃)	-	36							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO ₄)	250 mg / l *	47.7							
Chlorides (mg / l Cl)	250 mg / l *	33.1							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	252							
Total Suspended Solids (mg / l)	-	0.5							
Ammonia Nitrogen (mg / l N)	-	0.06							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.20							
Dissolved Oxygen (mg / l O ₂)	-	6.9							
BOD 5 (mg / l O ₂)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H ₂ S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO ₃)	-	0.83							
Manganese (mg / l MN)	-	<0.05							
Chlorine Residual (mg / l)	-	1.8							

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REVIEWED

m 4 Sep 01

* Secondary or Recommended MCL

Laboratory Analyst: KK

Revised 08/05/98

① Taste / odor are not regulated parameters
m 4 Sep 01

Elizabethtown Water Company **Physical & Chemical Analyses**

Date September 11, 2001General Source Raritan-Millstone PlantSample No. 1 Plant Delivered Water - 8:00 a.m. 9-11-01, ED

Sample No. 2

Sample No. 3

Sample No. 4

Sample No. 5

Sample No. 6

Sample No. 7

Sample No. 8

Parameter	MCL (mg/l)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temperature ° F	-	76							
Turbidity (NTU)	0.5 NTU	0.11							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	3.1/1Cc ①							
Threshold Taste	3 TTN *	3.0							
Conductivity (micromhos / cm)	-	356							
Hardness, Total (as mg / l CaCO ₃)	250 mg / l *	110							
Alkalinity	-	49							
pH	6.5-8.5 *	7.0							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.00							
Calcium (as mg / l CaCO ₃)	-	84							
Magnesium (as mg / l CaCO ₃)	-	26							
Iron, Total (mg / l Fe)	0.3 mg / l *	0.05							
Sulfates (mg / l SO ₄)	250 mg / l *	55.0							
Chlorides (mg / l Cl)	250 mg / l *	36.0							
Fluoride (mg / l F)	1.2 mg / l	0.12							
Total Dissolved Solids (mg / l)	500 mg / l *	278							
Total Suspended Solids (mg / l)	-	0.2							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	0.94							
Dissolved Oxygen (mg / l O ₂)	-	8.0							
BOD 5 (mg / l O ₂)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H ₂ S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO ₃)	-	0.22							
Manganese (mg / l MN)	-	<0.05							
(mg / l)	-	1.9							

* Secondary or Recommended MCL

① Taste & odor are non-regulated parameters for which monitoring is not required by Elizabethtown

Revised 08/05/98

Laboratory Analyst: MT

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REVIEWED

m 10 Oct 01

J. @ 4 Mar 02

m 10 Oct 01

Elizabethtown Water Company Physical & Chemical Analyses

Date October 2, 2001General Source Raritan-Millstone PlantSample No. 1 Plant Delivered Water - 8:00 a.m. 10-2-01, ED

Sample No. 2

Sample No. 3

Sample No. 4

Sample No. 5

Sample No. 6

Sample No. 7

Sample No. 8

Parameter	MCL (mg/l)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temperature ° F	-	64							
Turbidity (NTU)	0.5 NTU	0.13							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	3.0/1Cc							
Threshold Taste	3 TTN *	3.0							
Conductivity (micromhos / cm)	-	362							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	114							
Alkalinity	-	50							
pH	6.5-8.5 *	6.8							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/0.95							
Calcium (as mg / l CaCO3)	-	82							
Magnesium (as mg / l CaCO3)	-	32							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	55.5							
Chlorides (mg / l Cl)	250 mg / l *	35.2							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	282							
Total Suspended Solids (mg / l)	-	0.3							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.24							
Dissolved Oxygen (mg / l O2)	-	10.4							
BOD 5 (mg / l O2)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H2S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO3)	-	0.12							
Manganese (mg / l MN)	-	<0.05							
Tin (mg / l)	-	1.9							

* Secondary or Recommended MCL

Laboratory Analyst: MT

REVIEWED
M 27 Oct 01

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@cylmaro2

Elizabethtown Water Company Physical & Chemical Analyses

Date November 6, 2001General Source Raritan-Millstone PlantSample No. 1 Plant Delivered Water - 7:30 a.m. 11-6-01, KK

Sample No. 2

Sample No. 3

Sample No. 4

Sample No. 5

Sample No. 6

Sample No. 7

Sample No. 8

Parameter	MCL (mg/l)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temperature ° F	-	55							
Turbidity (NTU)	0.5 NTU	0.12							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	2.9/2Cc							
Threshold Taste	3 TTN *	3.1 ^①							
Conductivity (micromhos / cm)	-	328							
Hardness, Total (as mg / l CaCO ₃)	250 mg / l *	106							
Alkalinity	-	50							
pH	6.5-8.5 *	6.8							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/0.85							
Calcium (as mg / l CaCO ₃)	-	74							
Magnesium (as mg / l CaCO ₃)	-	32							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO ₄)	250 mg / l *	55.5							
Chlorides (mg / l Cl)	250 mg / l *	38.1							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	280							
Total Suspended Solids (mg / l)	-	0.88							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	0.91							
Dissolved Oxygen (mg / l O ₂)	-	10.9							
BOD 5 (mg / l O ₂)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H ₂ S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO ₃)	-	<0.05							
Manganese (mg / l MN)	-	<0.05							
Copper (mg / l)	-	1.36							

EXACT COPY

REVIEWED

m 3 Dec 01

@Harrow

* Secondary or Recommended MCL

Laboratory Analyst: Ed

① Taste is a nonregulated parameter
for which Elizabethtown is not required to monitor
m 3 Dec 01

Elizabethtown Water Company **Physical & Chemical Analyses**

Date December 12, 2001

Water Source Raritan-Millstone Plant

Sample No. 1 Plant Delivered Water - 7:30 a.m. 12-12-01, Ed

Sample No. 2

Sample No. 3

Sample No. 4

Sample No. 5

Sample No. 6

Sample No. 7

Sample No. 8

Parameter	MCL (mg/l)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Temperature ° F	-	49							
Turbidity (NTU)	0.5 NTU	0.09							
Color	10 °	1							
Threshold Odor 40 ° C	3 TON *	3.3/1Cc							
Threshold Taste	3 TTN *	3.3							
Conductivity (micromhos / cm)	-	365							
Hardness, Total (as mg / l CaCO ₃)	250 mg / l *	116							
Alkalinity	-	53							
pH	6.5-8.5 *	6.9							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.16							
Calcium (as mg / l CaCO ₃)	-	86							
Magnesium (as mg / l CaCO ₃)	-	30							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO ₄)	250 mg / l *	59.4							
Chlorides (mg / l Cl)	250 mg / l *	34.5							
Fluoride (mg / l F)	1.2 mg / l	<0.05							
Total Dissolved Solids (mg / l)	500 mg / l *	258							
Total Suspended Solids (mg / l)	-	0.40							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.30							
Dissolved Oxygen (mg / l O ₂)	-	11.5							
BOD 5 (mg / l O ₂)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H ₂ S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO ₃)	-	0.81							
Manganese (mg / l MN)	-	<0.05							
T.O.C. (mg / l)	-	2.10							

* Secondary or Recommended MCL

Laboratory Analyst: Ed

Revised 08/05/96

① Taste and odor are not regulated parameters
not required to be monitored by Elizabethtown

m 8 Feb 02

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REVIEWED

m 31 Jan 02

m 8 Feb 02

SILLIKER

Assuring Quality Worldwide

SILLIKER LABORATORIES OF OHIO1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212
TEL: 614/ 486 0150 • FAX: 614/ 486 0151MR. TED A. WEAVER
SALES MANAGER
THE ANDERSON'S, INC.
480 W. DUSSEL DR.
P.O. BOX 119
MAUMEE OH 43537**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
196389	12/01/99	1
PURCHASE ORDER #		
LOT# DK139 & DK219		

SAMPLES RECEIVED: 11/10/99
RECEIVED FROM: MAUMEE OHREVISED DATE: 12/06/99
REISSUED DATE: 1/05/00**ANALYTICAL RESULTS**SAMPLE
DESCRIPTIONBED O' COBBS
1/8" & 1/4"
COMPOSITE SAMPLE
DK 139 AND DK219

ORGANOPHOSPHATE/ORGANONITROGEN SCREEN

PESTICIDE	AMOUNT (PPM)	MDL (PPM)	TOLERANCE (PPM)
ACEPHATE	ND	0.05	
AMETRYN	ND	0.05	
ATRAZINE	ND	0.05	
AZINPHOS-METHYL (GUTHION)	ND	0.05	
BENTHIOCARB	ND	0.1	
BOLSTAR (SULPROFOS)	ND	0.05	
CARBOPHENOTHION (TRITHION)	ND	0.05	
CHLORFENVINPHOS (SUPONA)	ND	0.05	
CHLOROPROPHAM	ND	0.05	
CHLORPYRIFOS (DURSABAN)	ND	0.03	
CHLORPYRIFOS-METHYL	ND	0.05	
CIDORIN (CROTAPHOS)	ND	0.05	
COUMAPHOS (CO-RAL)	ND	0.04	
CYANAZINE (BLADEX)	ND	0.05	
DEF	ND	0.05	
DEMETON (SYSTOX) O/S ANALOGUES	ND	0.05	
DIAZINON	ND	0.03	
DIBROM (NALED)	ND	0.05	
DICROTAPHOS (DIDRIN)	ND	0.05	
DIMETHOATE (CYGON)	ND	0.03	
DIOXATHION (DELNAV)	ND	0.05	
DIPHENYL AMINE	ND	0.1	
DISULFOTON (DISYSTON)	ND	0.05	
EPN	ND	0.05	
ETHION	ND	0.05	
ETHOPROP (MOCAP)	ND	0.05	
FENAMIPHOS (NEMACUR)	ND	0.05	
FENITROTHION (SUMITHION)	ND	0.05	
FENITHION (BAYTEX)	ND	0.05	
FONOFOS (DYFONATE)	ND	0.05	
HEXAZINONE (VELPAR)	ND	0.05	

The results of this report relate only to the samples tested. This report shall not be reproduced unless written approval has been obtained from the laboratory.

* CONTINUED *



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TEL: 614/ 486 0150 • FAX: 614/ 486 0151**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
196389	12/01/99	2
PURCHASE ORDER #		
LOT# DK139 & DK219		

CONTINUED:

ANALYTICAL RESULTS

SAMPLE

DESCRIPTION

BED O' COBBS	HOSTATHION (TRIAZOPHOS)	ND	0.05
1/8" & 1/4"	IMAZALIL	ND	0.05
COMPOSITE SAMPLE	IMIDAN (PHOSMET)	ND	0.05
DK 139 AND DK219	ISOFPENPHOS (OFTANOL)	ND	0.05
	MALATHION	ND	0.05
	METALAXYL	ND	0.05
	METAHAMIDOPHOS	ND	0.05
	METHIDATHION (SUPRACIDE)	ND	0.05
	METHYL PARATHION	ND	0.05
	METOLACHLOR (DUAL)	ND	0.05
	METRIBUZIN (SENCOR)	ND	0.05
	MEVINPHOS (PHOSDRIN)	ND	0.05
	MOLINATE (ORDRAM)	ND	0.05
	MYCLOBUTANIL	ND	0.05
	PARATHION	ND	0.04
	PHORATE (THIMET)	ND	0.05
	PHOSALONE (ZOLONE)	ND	0.05
	PHOSPHAMIDON (DIMECRO)	ND	0.05
	PRIMIPHOS-METHYL	ND	0.05
	PROFENOPHOS (CRUACRON)	ND	0.05
	PROMETRYNE	ND	0.05
	PROPETAMPHOS (SAFROTIN)	ND	0.05
	RONNEL (FENCHLORFOS)	ND	0.05
	SINAZINE	ND	0.05
	TERBACIL	ND	0.5
	TETRACHLORVINPHOS (GARDONA)	ND	0.05
	THIABENDAZOLE	ND	0.05
	THIONAZIN (ZINOPHOS)	ND	0.05

ND=NONE DETECTED



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TEL: 614/ 486 0150 • FAX: 614/ 486 0151**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
196389	12/01/99	1
PURCHASE ORDER		
LOT# DK139 & DK219		

MR. TED A. WEAVER
SALES MANAGER
THE ANDERSON'S, INC.
480 W. DUSSEL DR.
P.O. BOX 119
MAUMEE OH 43537

SAMPLES RECEIVED: 11/10/99
RECEIVED FROM: MAUMEE OH

REVISED DATE: 12/06/99
REISSUED DATE: 1/05/00

ANALYTICAL RESULTS

SAMPLE
DESCRIPTION

BED O' COBBS
1/8" & 1/4"
COMPOSITE SAMPLE
DK 139 AND DK219

ORGANOCHLORINE PESTICIDE SCREEN

PESTICIDE	AMOUNT (PPM)	MDL (PPM)	TOLERANCE (PPM)
A,S,D-BHC	ND	0.05	
ACETOCLOR	ND	0.02	
ALACHLOR (LASSO)	ND	0.02	
ALERT (PIRATE)	ND	0.04	
ALDRIN	ND	0.01	
BANFLURALIN (BALAN, BENEFIN)	ND	0.03	
BHC (BENZAHEX)	ND	0.02	
BIFENOX (MODOWN)	ND	0.05	
BIFENTHRIN	ND	0.04	
BROMACIL	ND	0.1	
CAPTAFOL	ND	0.04	
CAPTAN	ND	0.05	
CHLORDANE	ND	0.25	
CHLOROBENZILATE (ACRABEN)	ND	0.4	
CHLORTHALONIL (BRAVO)	ND	0.01	
CYANAZINE	ND	0.1	
CYFLUTHRIN	ND	0.15	
CYPERMETHRIN	ND	0.05	
DACTHAL (CHLORTHAL)	ND	0.03	
DDD	ND	0.03	
DDE	ND	0.05	
DDT	ND	0.05	
DICHLOROBENIL (CASORON)	ND	0.03	
DICHLONE	ND	0.05	
DICLORAN (BOTRAN)	ND	0.02	
DICOPOL (KELTHANE)	ND	0.05	
DIELDRIN	ND	0.01	
DYRENE (ANILAZINE)	ND	0.1	
ENDOSULFAN ALPHA	ND	0.01	
ENDOSULFAN BETA	ND	0.01	
ENDOSULFAN SULFATE	ND	0.01	
ENDRIN	ND	0.01	

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TEL: 614/ 486 0150 • FAX: 614/ 486 0151**LABORATORY REPORT**

REPORT NO. DATE PAGE

196389

12/01/99

2

PURCHASE ORDER

LOT# DK139 & DK219

CONTINUED:

ANALYTICAL RESULTS

SAMPLE

DESCRIPTION

BED O' COBBS	ESFENVALERATE (ASANA)	ND	0.02
1/8" & 1/4"	ETHALFLURALIN (SONALAN)	ND	0.03
COMPOSITE SAMPLE	FLUVALINATE	ND	0.4
DK 139 AND DK219	FOLPET	ND	0.05
	HEPTACHLOR	ND	0.01
	HEPTACHLOR EPOXIDE	ND	0.02
	IPRODIONE (ROVRAL)	ND	0.05
	LINDANE (GAMMA-BHC)	ND	0.02
	LINURON	ND	0.05
	METHOXYCHLOR	ND	0.05
	METRIBUZIN	ND	0.02
	MIREX	ND	0.02
	MYCLOBUTANIL (RALLY)	ND	0.05
	NITROFEN (TOK)	ND	0.05
	OXADIAZON (RONSTAR)	ND	0.05
	OXYFLUORFEN (GOAL)	ND	0.04
	PENDAMETHALIN	ND	0.02
	PENTACHLORONITROBENZENE (PCNB)	ND	0.02
	PERMETHRIN	ND	0.05
	PERTHANE (ETHYLAN)	ND	0.05
	POLYCHLORINATED BIPHENYLS	ND	0.25
	PROCYMIDONE	ND	0.05
	PROFLURALIN (TOLBAN)	ND	0.03
	PRONAMIDE (KERB, PROPYZAMIDE)	ND	0.2
	PYRETHRINS (TOTAL)	ND	0.1
	TETRADIFON (TEDION)	ND	0.05
	TOXAPHENE (ATTAC) STROBANE	ND	0.25
	TRIDIMEFON (BAYLETON)	ND	0.05
	TRIFLURALIN (TREFLAN)	ND	0.02
	VEGADEX (DIETHYLDITHIOCARB. ACID)	ND	0.05
	VINCLOZOLIN (RONILAN)	ND	0.02


 MICHELE SMOOT, PH.D.
 LABORATORY DIRECTOR

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 1224 KINNEN ROAD, SUITE 114 • COLUMBUS, OH 43212
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LABORATORY REPORT

REPORT NO.	DATE	PAGE
196389	12/01/99	1
PURCHASE ORDER		
LOT# DK139 & DK219		

MR. TED A. WEAVER
 SALES MANAGER
 THE ANDERSON'S, INC.
 480 W. DUSSEL DR.
 P.O. BOX 119
 MAUMEE OH 43537

SAMPLES RECEIVED: 11/10/99
 RECEIVED FROM: MAUMEE OH

REVISED DATE: 12/06/99
 REISSUED DATE: 1/05/00

ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SALMONELLA EIA METHOD		COLIFORMS MPN/G	YEASTS/G MOLDS/G		SHIGELLA SAMPLE	
	WEIGHT	RESULT				WEIGHT	RESULT
BED O' COBBS 1/8" & 1/4" COMPOSITE SAMPLE DK 139 AND DK219	25G	NEGATIVE	<3	<10	<10	25G	NEGATIVE

SAMPLE DESCRIPTION	PREP METHOD	CADMIUM	LEAD	ARSENIC
BED O' COBBS 1/8" & 1/4" COMPOSITE SAMPLE DK 139 AND DK219	MICROWAVE WET ASH	<0.05 MG/100G	<0.1 MG/100G	<0.1MG/100G

SAMPLE DESCRIPTION	FUMONISIN (PPB)	VOMITOXIN	MERCURY (HYDRIDE GENERATOR)
BED O' COBBS 1/8" & 1/4" COMPOSITE SAMPLE DK 139 AND DK219	LIMITS 0.1PPM B1 0.1 B2,B3 NO*	LIMITS 0.1 PPM 0.2 DETECTED	<0.01 PPM

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SILLIKER LABORATORIES OF OHIO1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212
TEL: 614/ 486 0150 • FAX: 614/ 486 0151MR. TED A. WEAVER
SALES MANAGER
THE ANDERSON'S, INC.
480 W. DUSSEL DR.
P.O. BOX 119
MAUMEE OH 43537**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
197827	12/10/99	1
PURCHASE ORDER		
LOT#		

SAMPLES RECEIVED: 12/08/99

RECEIVED FROM: MAUMEE OH

REISSUED DATE: 1/05/00

ANALYTICAL RESULTS

SAMPLE DESCRIPTION	AEROBIC PLATE COUNT/G
BED O COBS DK 139	<10
BED O COBS DK 219	<10



MICHELLE SMOOT, PH.D.
LABORATORY DIRECTOR

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SILLIKER LABORATORIES OF OHIO1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212
TEL: 614/486 0150 • FAX: 614/486 0151MR. TED A. WEAVER
SALES MANAGER
THE ANDERSON'S, INC.
480 W. DUSSEL DR.
P.O. BOX 119
MAUMEE OH 43537**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
196389	12/01/99	1
PURCHASE ORDER		
LOT# DK139 & DK219		

SAMPLES RECEIVED: 11/10/99

RECEIVED FROM: MAUMEE OH

REVISED DATE: 12/06/99

REISSUED DATE: 1/05/00

ANALYTICAL RESULTS

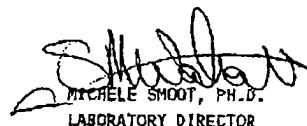
SAMPLE

DESCRIPTION

BED O' COBBS
1/8" & 1/4"
COMPOSITE SAMPLE
DK 139 AND DK219AFLATOXIN
(PPB)

	TEST LIMIT	RESULT
B1	1 PPB	ND
B2	1 PPB	ND
G1	1 PPB	ND
G2	1 PPB	ND

ND=NONE DETECTED


MICHELE SMOOT, PH.D.
LABORATORY DIRECTOR

The results of this report relate only to the samples tested. This report shall not be reproduced unless written approval has been obtained from the laboratory.

	Protocol and Protocol Amendments	Appendix DD
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Note: The following protocol indicates the test article name is “Gasoline Ethanol Vapor Condensate,” however this was corrected in Protocol Amendment No. 1 to “Gasoline TAME Vapor Condensate.” In addition, the Sponsor Study No. was corrected from 211-EtOH-1G to 211-TAME-1G.

APPENDIX DD

PROTOCOL

GASOLINE ETHANOL VAPOR CONDENSATE

A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATS

CONFIDENTIAL

HLS Study No.: 00-4202
Sponsor Study No.: 211-EtOH-1G
Final Protocol
Date: 6 August 2001

Huntingdon Life Sciences Study No. 00-4202
Sponsor Study No. 211-EtOH-1G

Page 2
Final Protocol

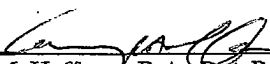
PROTOCOL SIGNATURES / PREFACE

(Confidential Information – to be distributed on a need-to-know basis)

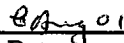
Study Title: Gasoline Ethanol Vapor Condensate: A One-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

HLS Study No.: 00-4202
Sponsor Study No.: 211-EtOH-1G

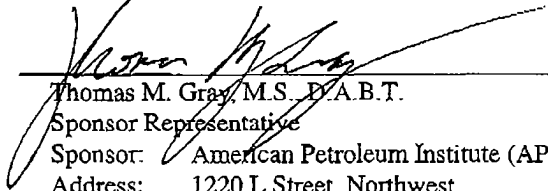
This is the Final Protocol. It has been reviewed and approved by:



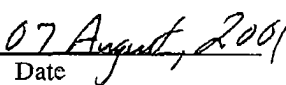
Gary M. Hoffman, B.A., D.A.B.T.
Study Director
Huntingdon Life Sciences (HLS)



Date



Thomas M. Gray, M.S., D.A.B.T.
Sponsor Representative
Sponsor: American Petroleum Institute (API)
Address: 1220 L Street, Northwest
Washington, D.C. 20005-4070
Phone No.: 202-682-8480
Fax No.: 202-682-8270
Email: grayt@api.com



Date

CONFIDENTIAL STUDY SPECIFIC INFORMATION

Ship Unused Test Substance	Name:	Michael C. Henley
and Empty Test Substance	Sponsor	Chevron Research and
Containers to:		Technology Company
	Address:	100 Chevron Way
		Richmond, CA 94802-0627
	Phone No.:	510-242-3062
	Fax No.:	510-242-5542
	Email	Mche@chevron.com

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1. INTRODUCTION

HLS Study No.	00-4202
Sponsor Study No.	211-EtOH-1G
Study Title	Gasoline Ethanol Vapor Condensate: A One-Generation Whole-Body Inhalation Reproduction Toxicity Study in Rats
Testing Facility	Huntingdon Life Sciences Mettlers Road PO Box 2360 East Millstone, NJ 08875
Purpose	The objective of this reproduction study is to provide general information concerning the effects of a test substance on the integrity and performance of the male and female reproductive systems, including gonadal function, the estrous cycle, mating behavior, conception, gestation, parturition and lactation. The study will also provide information about the effects of the test substance on neonatal morbidity and mortality, and data on prenatal and postnatal developmental toxicity.

2. STUDY PERSONNEL

Study Director:	Gary M. Hoffman, B.A., D.A.B.T. Tel.: 732-873-2550 x2920 Fax: 732-873-3992 Email: hoffmang@Princeton.Huntingdon.com
Alternate:	Carol S. Auletta, B.A., D.A.B.T. x2960 Senior Director of Toxicology

Additional personnel will be documented in the project file and presented in the final report.

3. REGULATORY REFERENCES

3.1. TEST GUIDELINE

This study is designed to meet or exceed the pertinent requirements of:

US EPA Vehicle Emissions Inhalation Exposure Guideline 79.61, CFR Vol. 59, No. 122, 27 June 1994.

US EPA (Environmental Protection Agency) Health Effects Test Guidelines, OPPTS 870.3800, Reproduction and Fertility Effects (August 1998) except this study will only continue through the 1st generation of offspring.

3.2. GOOD LABORATORY PRACTICES

This study will be conducted in accordance with US EPA 79.60, CFR Vol. 59, No. 122, 27 June 1994. This study will be performed according to protocol and Huntingdon Life Sciences' Standard Operating Procedures.

3.3. FACILITIES MANAGEMENT/ANIMAL HUSBANDRY

Currently acceptable practices of good animal husbandry will be followed, e.g., *Guide for the Care and Use of Laboratory Animals*; National Academy Press, 1996. Huntingdon Life Sciences Inc., is fully accredited by the Association for the Assessment and Accreditation of Laboratory Animal Care International (AAALAC).

3.4. ANIMAL WELFARE ACT COMPLIANCE

This study will comply with all appropriate parts of the Animal Welfare Act regulations: 9 CFR Parts 1 and 2 Final Rules, Federal Register, Volume 54, No. 168, August 31, 1989, pp. 36112-36163 effective October 30, 1989 and 9 CFR Part 3 Animal Welfare Standards; Final Rule, Federal Register, Volume 56, No. 32, February 15, 1991, pp. 6426-6505 effective March 18, 1991. The Sponsor should make particular note of the following:

1. The Sponsor's signature on all protocol documents for the study described herein signifies that there are no generally accepted non-animal alternatives and the study does not unnecessarily duplicate previous experiments.

2. All procedures used in this study have been designed to avoid discomfort, distress and pain to the animals. All methods are described in this study protocol or in written laboratory standard operating procedures.
3. Any procedures outlined in this study protocol which are expected to cause more than momentary or slight pain or distress to the animals will be performed with appropriate sedatives, analgesics or anesthetics unless the withholding of these agents is justified for scientific reasons, in writing, by the Sponsor and the Study Director and approved by the IACUC; in which case the procedure will continue for the minimum time necessary. Documentation of the justification for withholding treatment for pain or distress and IACUC approval of the procedures will be made prior to study initiation on the IACUC Protocol Review form.
4. Animals experiencing more than momentary or slight pain or distress due to emergency situations such as injury or illness will be treated by the Testing Facility's veterinarian staff with approved analgesics or agents to relieve pain. If possible, the Study Director will be consulted prior to treatment; however, the veterinary staff is authorized to administer emergency treatment as necessary. Any subsequent treatment or euthanasia will be administered after consultation with the Study Director. The Sponsor will be advised by the Study Director of all emergency situations in as timely a manner as possible.
5. Methods of euthanasia used during this study are in conformance with the above referenced regulations.
6. The numbers of animals used in this study was selected to ensure that an adequate number of pregnant females are available for valid statistical interpretation of the data as required by the referenced guidelines. OPPTS 870.3800 Guidelines, Section 2, number (B), item (v) states: Each control group should contain a sufficient number of mating pairs to yield at least 20 pregnant females. Each test group should contain a similar number of mating pairs. The 26 females/group will assure us of having at least 20 pregnant females/group based on 80% - 100% pregnancy rate at HLS.

3.5. INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE:

The IACUC Protocol Review Subcommittee has reviewed this protocol and found it to be in compliance with all appropriate regulations.

4. **QUALITY ASSURANCE MONITORING**

The Huntingdon Life Sciences Quality Assurance Unit, East Millstone, NJ will monitor the facilities, equipment, personnel, methods, practices, records and controls used in this study to assure that they are in conformance with this protocol, company standard operating procedures, and the appropriate Good Laboratory Practice regulations.

5. **ALTERATION OF DESIGN**

Alterations of this protocol may be made as the study progresses. No changes in the protocol will be made without the consent of the Sponsor. In the event that the Sponsor authorizes a protocol change verbally, such changes will be honored by the Testing Facility and will be followed by a written verification. All protocol modifications will be signed by the Study Director and a Sponsor representative. Any modifications potentially affecting animal welfare will also be signed by two members of the Institutional Animal Care and Use Committee prior to the modification's implementation.

6. **PROPOSED STUDY DATES**

Study initiation date:	Date Study Director signs protocol
Receipt of test animals:	1 August 2001
Initiation of exposures (P): (Experimental start date)	15 August 2001
Experimental termination: (Date of last data collection)	25 December 2001
Submission of audited draft report:	3 May 2002
Study completion date:	Date final report is signed by Study Director

7. EXPERIMENTAL DESIGN

			Number of Animals				
			Mated Adults		Microscopic Pathology Adult Generations ^b		Macroscopic Postmortem Examinations-Pups
			P ₀		P ₀		
Group	Group Designation	Exposure Levels (mg/m ³) ^a	M	F	M	F	F ₁
I	Control	0 (air only)	26	26	10	10	3/sex/litter
II	Low	2,000	26	26	TBD	TBD	3/sex/litter
III	Middle	10,000	26	26	TBD	TBD	3/sex/litter
IV	High	20,000	26	26	10	10	3/sex/litter

^a Exposures daily (7 days/week) for 6 hours per day.

^b Histologic examinations will be performed on reproductive tissues for the control and high-exposure animals.

M = Male; F = Female; TBD = to be determined based on Group IV evaluations; The first day of exposure will be Day 0.

8. TEST SUBSTANCE

8.1. TEST SUBSTANCE: Gasoline Ethanol Vapor Condensate

Description, lot number, storage, expiration date (if available) and handling procedures, as well as other pertinent information will be documented in the study data.

8.2. IDENTIFICATION OF TEST SUBSTANCE

Unless otherwise noted, the identity, strength, composition, stability and method of synthesis, fabrication and/or derivation of each batch of the test substance will be documented by the Sponsor before its use in the study. This documentation will be maintained by the Sponsor at the address indicated on page 2 of this protocol. The Sponsor will conduct a purity analysis of the test substance by GC prior to the start of this study.

8.3. ARCHIVAL SAMPLES

An archival sample from each lot of test substance will be taken and stored in the Archives of the Testing Facility. If multiple studies are conducted with the same substance, a common archival sample may be taken and appropriately labeled.

8.4. UNUSED TEST SUBSTANCE

The unused portion of the test substance as well as any empty test substance containers will be returned to the Sponsor's designee (see page 2) following completion of the study. Empty test substance containers will be returned to the Sponsor's designee on an as needed basis. The Sponsor will be responsible for tracking their disposition.

In the event the Sponsor wishes the Testing Facility to arrange for disposal, a cost for this service will be provided.

9. TEST ANIMALS (P₀)

Albino Rats (Outbred) VAF/Plus®

9.1. SPECIES

Sprague Dawley-derived CD®
[CrI: CD® IGS BR]

9.2. SUPPLIER

Charles River Laboratories
Kingston, New York

9.3. JUSTIFICATION FOR TEST SYSTEM SELECTION

The rat is used as a surrogate to humans in the detection of reproductive effects and is a species in which known reproductive toxicants have been detected. The rat is a rodent animal model commonly utilized in reproduction studies and is recommended in the referenced guidelines. In addition, a historical control database with this strain of animal and supplier facility is available for comparative evaluation.

9.4. ANIMAL REQUIREMENTS/SPECIFICATIONS**9.4.1. NUMBER**

	<u>Total</u>	<u>Males</u>	<u>Females</u>
Placed on test	208	104	104

9.4.2. AGE AND WEIGHT

Males and Females: Approximately four weeks at receipt; and five to six weeks at initiation of treatment. Males will weigh approximately 150-200 grams and females 125-175 grams at initiation of exposures. Animals outside this weight range will be used at the discretion of the Study Director.

Females: Nulliparous and non-pregnant

9.5. ACCLIMATION PERIOD

Approximately two weeks; all animals will be checked for viability twice daily. Prior to assignment to study all animals will be examined to ascertain suitability for study.

9.6. ANIMAL HUSBANDRY**9.6.1. HOUSING**

Animals will be housed in suspended, stainless steel cages with wire mesh fronts and floors. Animals at receipt will be housed 2/cage during the initial week of acclimation. Thereafter, animals will be housed individually except as follows:

Mating: One male and one female co-housed continuously (except during treatment) until mated or 14 days have elapsed, whichever occurs first. Mating pairs will be assigned randomly.

Lactation: Dam with litter (solid plastic “shoebox” cage)

9.6.2. FEED & FEED ANALYSIS

Certified Rodent Diet, No. 5002; (Meal) (PMI Nutrition International, St. Louis, MO) ad libitum except during exposures.

Analytical certifications of batches of feed used during the study are provided by the manufacturer and will be maintained on file at the Testing Facility. There are no known contaminants in the feed that are expected to interfere with the results of this study.

9.6.3. WATER & WATER ANALYSIS

Facility water supply (Elizabethtown Water Company, Westfield, NJ); without restriction except during exposures, via an automated water delivery system to individual animal cages.

Water analyses are conducted by Elizabethtown Water company to ensure that water meets standards specified under the EPA Federal Safe Drinking Water Act Regulations (40 CFR part 141). Water analyses, provided by the supplier, will be maintained on file at the Testing Facility. In addition, water samples are collected biannually from representative rooms in the Testing Facility; chemical and microbiological water analyses are conducted on these samples by a subcontract laboratory. Results are maintained on file at the Testing Facility. There are no known contaminants in the water that are expected to interfere with the results of this study.

9.6.4. BEDDING SUBSTANCE

Ground corncob bedding (Bed-O'-Cobs® 1/4 inch irradiated, The Andersons, Maunee, OH) will be provided for each mated female on Day 18 of gestation. Fresh bedding will be provided at least weekly and as needed during the lactation period (litters will be weaned on Day 28 of lactation).

9.6.5. BEDDING ANALYSIS

Analyses for each batch of bedding used on study provided by the supplier, will be maintained on file at the Testing Facility. There are no known contaminants in the bedding that are expected to interfere with the results of this study.

9.6.6. VETERINARY CARE

Animals are monitored by the technical staff for any conditions requiring possible veterinary care. If any such conditions are identified, a staff veterinarian will be notified for an examination and evaluation. Animals will be treated as outlined in the Animal Welfare Act Compliance section of this protocol.

9.6.7. ENVIRONMENTAL CONDITIONS

Light/Dark Cycle

Twelve-hour light/dark cycle daily via automatic timer.

Temperature

Temperature will be monitored in accordance with Testing Facility SOPs to ensure that the desired range of 19-25°C is maintained to the maximum extent possible.

Humidity

Humidity will be monitored in accordance with Testing Facility SOPs to ensure that the desired range of 30-70% is maintained to the maximum extent possible.

Air Changes

Air changes will be maintained at a rate of 10-15 per hour and will be recorded once prior to exposures.

9.7. ANIMAL HUSBANDRY DURING EXPOSURE

9.7.1. HOUSING Individual in cages.

9.7.2. FEED None.

9.7.3. WATER None.

9.8. SELECTION FOR STUDY

More animals than required for the study will be purchased and acclimated. Animals considered suitable for study on the basis of pretest physical examinations, body weight data and any other pretest evaluations will be randomly assigned, by sex, to control or treated groups in an attempt to equalize mean group body weights. Individual weights of animals placed on test shall not exceed 20% of the mean weight for each sex. Disposition of all animals not used in the study will be maintained in the study file.

9.9. ANIMAL IDENTIFICATION

Each animal will be assigned a temporary identification number upon receipt. After selection for study (P generation), each animal will be ear-tagged with a number assigned by the Testing Facility. This number plus the study number will comprise the unique identification for each study animal. If the tag is lost, it will be replaced or the animal will be tail tattooed for identification. Each animal's cage will be provided with a card that will be color-coded for exposure level identification and will contain the study number and animal number.

10. MATING, GESTATION AND LACTATION PROCEDURES

10.1. ESTROUS CYCLING:

Daily vaginal smears will be taken at approximately the same time each day, and the stage of estrous will be determined for each female for three weeks prior to cohabitation for the P₀ females. These evaluations will continue until there is evidence of mating or until the 14-day mating period ends. Care will be taken to ensure that pseudo-pregnancy is not induced.

10.2. MATING PROCEDURE

After both sexes have been exposed to the test substance for ten weeks (pre-mating treatment period), one male and one female from the same exposure group will be caged together until a sign of mating (microscopic observation of sperm in the vaginal smear and/or a copulation plug in the vagina) is observed or for 14 consecutive days. Males and females will not be paired during the mating period while being exposed. The day evidence of mating is observed will be defined as Day 0 of gestation. If mating has not occurred after this interval, the animals will be separated without further opportunity for mating.

10.3. PARTURITION AND LACTATION

On Day 18 of gestation, several days prior to expected parturition, each female will be transferred to a solid plastic “shoebox” cage. Bedding substance will be provided and changed at least weekly and as needed. Examination for signs of parturition will be made twice daily (morning and afternoon). Evidence of difficult or prolonged parturition (dystocia), if observed, will be recorded. The day on which parturition is first observed will be defined as Day 0 of lactation. Females which were caged with males but exhibited no evidence of mating, will be transferred to plastic shoe-box cages when the first animals mated reach their day 18 of gestation.

11. TEST SUBSTANCE ADMINISTRATION

11.1. ROUTE OF ADMINISTRATION

Inhalation via whole-body exposures.

11.2. JUSTIFICATION FOR ROUTE OF ADMINISTRATION

The inhalation route is one of the potential routes of human exposure to this test substance and is the route specified in the referenced US EPA 79.61 guidelines.

11.3. JUSTIFICATION FOR EXPOSURE LEVEL SELECTION

Exposure levels were selected by the Sponsor, based on results from a 13-week inhalation study conducted at the Testing Facility, that utilized this test article in rats (00-6127). The exposure levels were also selected based on the lower flammable limits of the test substance.

11.4. FREQUENCY AND DURATION OF INHALATION ADMINISTRATION

Frequency: P₀ males and females will receive 70 consecutive days (ten weeks) of exposure prior to mating for six hours/day. P₀ males and females will continue to be exposed daily throughout a 14 day cohabitation period. The mated females will continue to be exposed daily from day 0 through 19 of gestation. Beginning on day 5 of lactation, nursing P₀ females will be exposed daily until weaning of the F₁ offspring on Day 28. P₀ females with no confirmed day of mating would continue to be exposed for 25 days following completion of the mating period. P₀ females with a confirmed day of mating that do not deliver will be euthanized on presumed day 25 of gestation.

P₀ males will be exposed daily until euthanasia. P₀ males will be euthanized proximate to the date that the last F₁ litters have been weaned.

Duration: The test substance will be administered for 6 hours/day during all segments of the study.

11.5. TEST SUBSTANCE ADMINISTRATION

The test substance will be administered as a vapor in the breathing air of the animals. The test atmosphere will be generated by an appropriate procedure determined during pre-study trials. The trials will be performed to evaluate the optimal set of conditions and equipment to generate a stable atmosphere at the target exposure levels and maintain uniform conditions throughout the exposure chambers. The method will be described in the raw data of the study and in the report.

The whole-body exposure chambers will each have a volume of approximately 1500 liters. The chambers will be operated at a minimum flow rate of 300 liters per minute. The final airflow will be set to provide at least one air change in 5.0 minutes (12 air changes/hour) and a T_{99} equilibrium time of at most 23 minutes. This chamber size and air flowrate is considered adequate to maintain the oxygen level at least 19% and the animal loading factor below 5%. At the end of the 6-hour exposure, all animals will remain in the chamber for a minimum of 30 minutes. During this time the chamber will be operated at approximately the same flow rate using clean air only.

11.6. EXPOSURE CONCENTRATION DETERMINATION

A nominal exposure concentration will be calculated. The flow of air through the chamber will be monitored using appropriate calibrated equipment. The test substance consumed during the exposure will be divided by the total volume of air passing through the chamber (volumetric flow rate times total exposure time) to give the nominal concentration.

During each exposure, measurements of airborne concentrations will be performed in the animals' breathing zone at least 4 times using an appropriate sampling procedure and IR analytical procedure. Also, one sample per chamber per week will be analyzed by gas chromatography (GC) to characterize at least 10 major components (comprising at least 80% by weight of the test substance) to show test substance stability and comparison between the neat liquid test substance and the vaporized test atmospheres.

If more than the normal amount of trials is required because of test substance generation or monitoring problems (80 technician hours), the Sponsor will be consulted prior to additional trials (additional cost).

11.7. PARTICLE SIZE DISTRIBUTION ANALYSIS

During each week of exposure, particle size determinations will be performed using a TSI Aerodynamic Particle Sizer to characterize the aerodynamic particle size distribution of any aerosol present.

11.8. CHAMBER ENVIRONMENT

Chamber temperature, humidity, airflow rate and static pressure will be monitored continuously and recorded every 30 minutes during exposure. Chamber temperature and relative humidity will be maintained, to the maximum extent possible, between 20 to 24°C and 40 to 60%, respectively. Chamber oxygen levels (maintained at least 19%) will be measured pretest and at the beginning, middle and end of the study.

Air samples will be taken in the vapor generation area pretest and at the beginning, middle and end of the study. Light (maintained approximately 30 foot-candles at 1.0 meter above the floor) and noise levels (maintained below 85 decibels) in the exposure room will be measured pretest and at the beginning, middle and end of the study.

11.9. SUMMARY OF CHAMBER ACTIVITY

The minimum frequency of chamber activity is summarized below.

Activity	Frequency/chamber
Measured Test Substance Concentration	4X/day
Measured Test Substance Characterization	1X/week
Particle Size	1X/week
Temperature	13X/day
Relative Humidity	13X/day
Airflow Rate	13X/day
Static Pressure	13X/day
Nominal Test Substance Concentration (excluding the air control chamber)	1X/day
Rotation Pattern of Exposure Cages	1X/week
Loading/Unloading Verification	1X/day

12. EXPERIMENTAL EVALUATIONS**12.1. OBSERVATIONS****12.1.1. VIABILITY EXAMINATIONS (CAGESIDE)**

Observations for mortality, and signs of severe toxic or pharmacological effects will be made at least twice daily (morning and afternoon). Animals in extremely poor health or in a possible moribund condition will be identified for further monitoring and possible euthanasia. All animals found dead will be submitted for a macroscopic examination. Parental animals found dead after normal working hours will be refrigerated until a necropsy can be performed.

12.1.2. DETAILED PHYSICAL EXAMINATIONS

The animals will be observed as a group at least once during each exposure.

Each parental generation animal will be removed from its cage and examined at least once pretest (P_0), at the study start (first day of treatment for the P_0) and weekly thereafter during the study period. Females will continue to be observed weekly until there is evidence of mating. Once mated, females will be observed on gestation days 0, 7, 14 and 20 and on lactation days 1, 4, 7, 14, 21 and 28. Females without evidence of mating will continue to be observed weekly until euthanized. Examinations will include, but not be limited to, observations of general condition, skin and fur, eyes, nose, oral cavity, abdomen and external genitalia as well as evaluations of respiration, and palpation for tissue masses. During the exposure period, physical examinations will be performed post-exposure.

12.2. BODY WEIGHTS

Males:

P_0 : At least once during pretest, at the time of randomizing into study groups, on the day treatment initiates, weekly throughout the study (including the mating period) and prior to termination.

Females:

P_0 : At least once during pretest and at the time of randomizing into study groups.

On the day treatment initiates and weekly during the premating growth and mating periods; gestation - Days 0, 4, 7, 14 and 20; lactation - Days 1, 4, 7, 14, 21 and 28. Females without evidence of mating and that do not deliver pups will be weighed weekly until euthanasia.

12.3. FEED CONSUMPTION

Males:

P₀: One week pretest and during the exposure period of the P₀ group weekly during the premating treatment period (feed consumption will not be measured during the mating period when males will be co-housed) and through the postmating period until euthanasia.

Females:

P₀: One week pretest and during the exposure period of the P₀. Weekly during the premating growth periods (feed consumption will not be measured during the mating period when animals are co-housed) and on day 0, 4, 7, 14 and 20 of gestation and on day 1, 4, 7, 14, 21 and 28 of lactation. Females without evidence of mating and that do not deliver pups will have feed consumption measured weekly until euthanasia.

12.4. LITTER EVALUATIONS (F₁)

12.4.1. OBSERVATIONS

F₁ litters will be observed as soon as possible after delivery for the number of live and dead pups, sex of the pups and pup abnormalities. The anogenital distance will be qualitatively determined on the day of delivery completion for all pups of the F₁ generation (to determine the sex). All F₁ pups in the litter will be uniquely identified by toe tattoo on the day of delivery completion. Thereafter, litters will be observed twice daily (morning, afternoon) for the presence of dead pups. These dead pups and pups euthanized in a moribund condition will be examined to the extent possible for defects and/or cause of death and preserved in neutral, phosphate-buffered 10% formalin. Litter size will be recorded daily from Lactation Day 1 to 28.

12.4.2. CULLING PUPS

On Day 4 of lactation, each F₁ litter with more than 10 pups will be culled to that number with sex distribution equalized (five/sex) when possible. F₁ pups will be culled randomly. Preferential culling of runts will not be performed.

12.4.3. PHYSICAL EXAMINATIONS

Each F₁ pup will be given a macroscopic physical examination on the day of delivery completion and on day 4, 7, 14, 21 and 28 of lactation.

12.4.4. PUP BODY WEIGHT DATA

Individual F₁ pup weights will be recorded on day 1, 4 (pre-cull intervals), 7, 14, 21 and 28 of lactation (post-cull intervals).

12.4.5. PUP SEXING DATA

Individual sexing data will be recorded on the day of delivery completion and reconfirmed, and recorded on day 4, 7, 14, 21 and 28 of lactation.

13. POSTMORTEM

13.1. MACROSCOPIC POSTMORTEM EXAMINATION

13.1.1. PARENTAL ANIMALS (P₀)

13.1.1.1. Method of Euthanasia

Exsanguination following anesthesia with inhaled carbon dioxide.

13.1.1.2. Moribund Animals

Animals showing signs of severe debility, particularly if death appears imminent will be euthanized to prevent loss of tissues through autolysis.

13.1.1.3. Terminal Necropsy Males (P₀)

P₀ males will be euthanized proximate to the date that the last F₁ litters have been weaned. This will permit some evaluation of fertility (i.e., number of litters delivered) prior to euthanasia.

13.1.1.4. Terminal Necropsy Females (P₀)

All P₀ females with litters will be euthanized on day 28 of lactation.

13.1.1.5. Macroscopic Examination

Complete macroscopic postmortem examinations will be performed on all adult animals, including animals euthanized in a moribund condition or found dead and all abnormal observations will be recorded. The necropsy of the parental animals will include examination of the external surface and all orifices; the external surfaces of the brain and spinal cord; the organs and tissues of the cranial, thoracic, abdominal and pelvic cavities and neck; and the remainder of the carcass. Examination of all parental P₀ females, which were co-housed with P₀ males, will include a vaginal smear examined to determine the stage of the estrous cycle and a count of uterine implantation scars, if present.

13.1.1.6. Organ Weights

The following organs will be weighed at terminal euthanasia of all the P₀ males and females in each group:

P ₀ Males	P ₀ Females
Epididymides (total and caudal)	Ovaries
Prostate	Uterus (with oviducts and cervix)
Seminal Vesicles With coagulating glands and their fluids	
Testes	
Adrenal Glands	
Brain	
Kidneys	
Liver	
Lungs	
Pituitary	
Spleen	

Prior to weighing, all organs will be carefully dissected and properly trimmed to remove fat and other contiguous tissue in a uniform manner. Organs will be weighed as soon as possible after dissection to avoid drying. Paired organs will be weighed together. Organ weight data will be presented as absolute values and relative to terminal body weight and brain weight. Organ weights will not be

recorded for an animal dying spontaneously or euthanized moribund.

13.1.1.7. Tissues Preserved

Tissues listed following will be obtained at necropsy and preserved for all parental animals:

Males	Females
Epididymis (right)	Ovaries
Prostate	Uterus (with oviducts and cervix)
Seminal Vesicles (with coagulating glands and their fluids)	Vagina
Testis (right)	
Adrenal Glands	
Lungs	
Pituitary	
Macroscopic Lesions	
Target Organs (as determined from this study and previous studies, e.g.13-week inhalation study 00-6127)	

All tissues listed above and brain, kidneys, liver and spleen will be fixed in 10% Neutral Buffered Formalin (NBF) except the testes and epididymides will be fixed in modified Davidson's solution for at least 48 hrs prior to permanent storage in NBF.

13.1.2. F₁ PUPS AND WEANLINGS

13.1.2.1. Method of Euthanasia

F₁ pups and weanlings will be euthanized by carbon dioxide asphyxiation.

13.1.2.2. Moribund Animals

F₁ pups and weanlings showing signs of severe debility, particularly if death appears imminent, will be euthanized to prevent loss of tissues through autolysis.

13.1.2.3. Dead and Culled Pups (F₁)

F₁ pups found dead at birth will be identified as stillborn or alive but found dead (lung floatation test). F₁ pups found dead during the lactation period will be examined to the extent possible for defects and/or the cause of death, and for the presence or absence of milk in the stomach. Dead pups will not be eviscerated. Viscera will remain intact and the pup will be preserved in 10% NBF. Cannibalized pups will be examined to the extent possible and discarded. Culled F₁ pups will be examined for external abnormalities. If unremarkable, these pups will then be euthanized via IP injection of sodium pentobarbital and discarded. Culled F₁ pups with external abnormalities will be preserved intact in 10% NBF at the discretion of the Study Director.

13.1.2.4. Terminal Necropsy Pups (F₁)

Macroscopic Examination and Tissues Preserved

F₁ pups (randomly selected 3 pups/sex/litter, if possible) will be given a macroscopic examination at weaning on day 28 of lactation for any structural abnormalities or pathological changes. Special attention will be given to the organs of the reproductive system; brain, liver, kidneys, pituitary, adrenal gland, spleen, heart and thymus gland. Abnormal tissues and/or target organs, if identified, will be preserved in 10% neutral buffered formalin (NBF).

Organ Weights

F₁ pups (1 pup/sex/litter, if possible) for which organ weight data will be collected will be randomly selected. The following organs will be weighed from one pup/sex/litter that was selected for complete macroscopic examination at weaning on day 28 of lactation:

brain
spleen
thymus gland

Organ weight data will be presented as absolute values and relative to terminal body weight and brain weight.

Remaining F₁ pups, if any, will be examined for external abnormalities. If unremarkable, these pups will then be

euthanized via carbon dioxide asphyxiation and discarded. Remaining F₁ pups with external abnormalities will be preserved intact in 10% NBF at the discretion of the Study Director.

13.1.3. SPERM COUNT, MOTILITY AND MORPHOLOGY ASSESSMENTS

All P₀ parental males euthanized at termination in each group will have the following sperm evaluations available for analysis: 1) motility; 2) a count of homogenization-resistant testicular sperm; 3) a count of caudal epididymal sperm; and 4) sperm morphology (cauda epididymis). Only samples for the high-exposure and control group will be analyzed if there is no effect in the high-exposure group. Evaluations will be performed by Pathology Associates International, Frederick, MD as follows:

- The right testis and right epididymis from each animal will be removed intact, weighed (testes weighed together) and preserved in modified Davidson's solution for at least 48 hrs prior to permanent storage in NBF for histopathological evaluation.
- The left epididymis will be removed intact, weighed, and frozen on dry ice for transport to Pathology Associates International, Frederick, MD. The epididymides will be stored frozen at -70° C until evaluation for caudal sperm count. Each epididymis will be thawed and the caudal portion removed and weighed. A homogenized sample of the caudal epididymis will be stained and examined using the Hamilton Thorne IVOS sperm analyzer. For each stained preparation, 20 fields will be counted. The total number of sperm in the caudal epididymis will be calculated and adjusted for the caudal epididymal weight. Additionally, for each male two sperm morphology slides will be prepared, stained with Eosin and evaluated for morphological development.
- The left vas deferens will be excised and placed in a prewarmed solution of phosphate buffered saline and 1% Bovine Serum Albumin. After a minimum three minute "swimout" period, a sample will be placed in a Hamilton Thorne IVOS sperm analyzer and five fields will be stored on an optical disk. These fields will subsequently be analyzed for percent motility.
- The left testis will be removed and frozen on dry ice for transport to PAI (Frederick, MD). The testis will be stored frozen at -20°C until processed for counting of homogenization-resistant sperm.

Tissues retained from these evaluations will be discarded following issuance of the final report following consultation with the Sponsor. The Testing Facility will be responsible for the GLP compliance of this subcontractor. All raw data, the protocol and all reports generated at PAI will be maintained. After submission of the final report, all of the above will be shipped to Huntingdon Life Sciences to be archived.

13.1.4. MICROSCOPIC PATHOLOGY EVALUATIONS

Slides of tissues listed in the table in Section 13.1.1.7. will be prepared and stained with hematoxylin and eosin (H&E) and examined microscopically for randomly selected 10 animals/sex/group from P₀ parental animals in the control and high-exposure groups. If microscopic findings indicative of an effect of test substance administration are seen in the initial 10 animals/sex of high-exposure animals, then examinations should be made of those tissues/organs for the remaining control and high-exposure animals and/or all low- and middle-exposure animals (Sponsor consulted, additional cost). [Note: any abnormalities not noted during macroscopic postmortem examinations that are seen during histological processing will be recorded]. Additionally reproductive organs of the low- and middle-exposure animals suspected of reduced fertility (e.g. those that failed to mate, conceive, sire or deliver healthy offspring, or for which estrous cyclicity or sperm number motility or morphology were affected) will also be subjected to microscopic examination for additional cost at the discretion of the Sponsor.

Histopathological examinations of the testes will be conducted to identify potential treatment-related effects such as retained spermatids, missing germ cell layers or types, multinucleated giant cells, or sloughing of spermatogenic cells into the lumen. The examination of the intact epididymis will be of a longitudinal section that will permit examination of the caput, corpus and cauda regions. These examinations will identify such lesions as sperm granulomas, leukocytic infiltration (inflammation), aberrant cell types within the lumen, or the absence of clear cells in the cauda epididymal epithelium.

Histopathological examination of the ovary will include evaluation of five sections taken at least 100 μ m apart from the inner third of each ovary. These examinations can detect depletion of the primordial follicle population and enumerate the total number of primordial follicles for comparison with the ovaries from control animals. These examinations can also confirm the presence or absence of growing follicles and corpora lutea in comparison to control ovaries. Qualitative evaluations of

the P₀ animals will be performed by HLS. Quantitative evaluations of the P₀ animals (Sponsor consulted, additional cost) may be performed by Pathology Associates International, Frederick, MD.

14. PRESERVATION OF RECORDS AND SPECIMENS

All data documenting experimental details and study procedures and observations will be recorded and maintained as raw data.

At the completion of the study, all reports, raw data, preserved specimens and retained samples will be maintained in the Testing Facility's Archives for a period of one year after submission of the signed final report.

The Sponsor will be contacted in order to determine the final disposition of these materials. The Sponsor is responsible for all costs associated with the storage of these materials beyond one year from the issuance of the final report and for any costs associated with the shipment of these materials to the Sponsor or to any other facility designated by the Sponsor.

15. STATISTICAL EVALUATIONS

The following items will be analyzed statistically in the final report:

15.1. CONTINUOUS DATA

- Body weights (all recorded intervals - pre mating, mating, gestation, lactation and post mating)^a
- Body weight change^a
 - entire pre mating period (males and females)
 - over each weighing interval during the gestation and lactation periods to include Days 0-20 of gestation and Days 1-28 of lactation
 - males during the post mating period (weekly and over the entire period)
- Feed consumption values (all recorded intervals)^a
 - pre mating growth period (weekly)
 - post mating period (weekly for males)
 - gestation (Days 0-4, 4-7, 7-14, 14-20)
 - lactation (all recorded intervals)
- Organ weight data (absolute and relative to the terminal body weight and brain weights)^a
- Gestation length ^a
- Pup body weights (all recorded intervals during lactation)^a
- Number of pups (live, dead, total) at birth and during lactation (days 1, 4, 7, 14, 21 and 28)^a
- Mean sperm count (homogenization-resistant testicular sperm and caudal epididymal sperm) and motility data^b

^a Statistical evaluation of equality of means will be made by the appropriate one way analysis of variance (ANOVA) technique, followed by a multiple comparison procedure, if needed. If ANOVA shows no difference, no additional comparisons will be made. If ANOVA is significant, Dunnett's test will be used to determine which data, if any, differ from the control.

^b Sperm motility, total count and morphology data will be compared between groups using the Kruskal-Wallis nonparametric ANOVA test.

15.1.1. STATISTICAL ANALYSES CONTINUOUS DATA - MULTIPLE GROUP ANALYSES

Data will be compared between the control and treated groups. All statistical tests will be conducted at the 5% and 1%, two-sided risk levels.

15.1.2. STATISTICAL ANALYSES CONTINUOUS DATA - MULTIPLE GROUP ANALYSES FOR SPERM AND MOTILITY ANALYSIS

If a significant difference occurs ($p < 0.05$), the Wilcoxon (Mann-Whitney U) test will be used for pair-wise comparisons of each treated group to the vehicle control group. Statistical analyses will be performed using an IBM compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

15.2. INCIDENCE DATA

- Mortality rates
- Mating indices (male and female)
- Pregnancy rates
- Male fertility indices
- Live birth indices
- Pup viability indices (Days 0-4) and lactation indices (Days 4-28)

15.2.1. INCIDENCE DATA ANALYSIS

Analyzed using the Chi-square test ($2 \times n$). If Chi-square analysis is not significant, no additional analyses will be performed. If Chi-square is significant, a Fisher Exact Test with Bonferonni correction will be performed to identify differences between the groups.

16. REPORT

16.1. STATUS REPORT

Periodic verbal and written updates on study progress will be provided by the Study Director. In general, written status reports will be submitted weekly and at termination of the study. These reports will include:

- Exposure data
- Mortality rates
- Mean weekly body weight and body weight gain data
- Mean weekly feed consumption pre-mating period
- Summary of detailed physical examinations
- Mating indices (males and females)
- Male fertility indices
- Pregnancy rates
- Gestation length
- Number of pups at birth (live, dead and total) and number of live pups surviving during lactation
- Mean pup body weights (lactation)
- Individual female litter data
- Maternal gestation and lactation body weights and weight gains
- Maternal feed consumption - gestation/lactation
- Summary of macroscopic postmortem evaluations (adults, weanlings)

16.2. FINAL REPORT

One unbound hard copy and one electronic copy of an audited draft report will be submitted following termination of the study. After receipt and review of the Sponsor's comments, appropriate changes will be made and two hard copies and one electronic copy of a signed, final report will be issued. (Additional copies will be provided at additional cost). The report will minimally include:

16.2.1. GENERAL

- Compliance Statement
- Quality Assurance Statement
- Abstract
- Introduction
- Experimental Design
- Materials and Methods
- Protocol Deviations
- Discussion of study results
- Conclusion and No Observed Effect Level (NOEL) or No-Observed-Adverse-Effect Level (NOAEL) statement, if applicable

- References for experimental methodology
- Senior personnel participating in the study
- Protocol and any amendments

16.2.2. DATA TABULATIONS FOR PARENTAL GENERATIONS

- Mortality - termination history
- Physical in-life observations (summary and individual data presented monthly throughout the study)
- Mating indices
- Pregnancy rates
- Male fertility indices
- Mean body weight data (all interval)
- Mean feed consumption data (all intervals)
- Mean weight gain data (premating, postmating [males], gestation and lactation intervals)
- Estrous cycle data
- Macroscopic postmortem observations (adults, weanlings)
- Microscopic pathology examinations
- Organ weight data (parental and pups)
- Sperm assessment data

16.2.3. DATA TABULATIONS FOR LITTERS AND PUPS

- Mean gestation length
- Mean number of pups (live, dead and total) at birth and live pups at Days 4, 7, 14 and weaning (Day 28)
- Litter survival indices
- Pup live birth index
- Pup viability and lactation indices
- Mean pup body weights (all recorded intervals during lactation)
- Pup sex ratio at birth and weaning
- Pup day of sexual maturation and body weight at sexual maturation
- Pup macroscopic postmortem observations
- Individual female litter data

16.2.4. APPENDICES

All exposure data, analytical methodology and individual animal data (adults, pups) including but not limited to the following will be presented in the appendices: body weight and body weight gain, feed consumption, physical observation data, litter data, organ weight data, sperm assessment data, estrous cycle data, macroscopic postmortem findings, microscopic examination data and feed/water/bedding data.

17. REFERENCES

Dunlap, W.P. and J.A. Duffy (1975) "Fortran IV functions for calculating exact probabilities associated with Z, Chi-square, T and F values." Behav. Res. Methods and Instrumentations, 7:59-60

Dunlap, W.P., M.S. Marx and G.J. Agamy (1981) "Fortran IV functions for calculating probabilities associated with Dunnett's Test", Behav. Res. Methods and Instrumentations, 13:363-366.

Hollander, M. and D.A. Wolf (1973) Nonparametric Statistical Methods, Wiley, New York, NY, pp. 120-123.

Siegel, S. (1956) Nonparametric Statistics for the Behavioral Sciences. McGraw-Hill, pp. 98-99 and 104-106.

Huntingdon Life Sciences Study No. 00-4202
Sponsor Study No. 211-TAME-1G

Page 1 of 2
Final Protocol

Protocol Amendment No. 1

Study Title: Gasoline TAME Vapor Condensate: A 1-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Changes

1. Test Substance, Pages 1, 2, 5, 10:

Revise: Gasoline **TAME** ~~Ethanol~~ Vapor Condensate

2. Header, all pages:

Revise: Sponsor Study No. 211-**TAME** ~~EtOH~~ -1G

3. Proposed Study Dates, Page 8:

Revise:

Initiation of exposures (P): **22** ~~15~~ August 2001

Experimental termination: **1 January 2002** ~~25 December 2001~~

4. Prior Study Reference, Pages 15 and 22:

Revise: **00-6128** ~~00-6127~~

5. Postmortem, Page 20:

Add: **If a dam is found dead or is euthanized in moribund condition prior to weaning her litter, the dam will be macroscopically examined & tissues retained but no organs will be weighed. The litter will be euthanized and externally examined and discarded (if normal) or preserved (if abnormal).**

If a dam entirely loses her litter, she shall resume exposures the next day (if prior to lactation day 5) or will otherwise continue exposures. She will be sacrificed on the initial day of weaning for the study (or later, as practical) and macroscopically examined & tissues retained but no organs will be weighed.

6. Organ Weights, page 21:

Revise: Paired organs will be weighed together (**gonads will also be weighed separately**).

Reasons for Changes


1. Because of difficulty with the nominal to measured comparisons during prestudy trials with Gasoline Ethanol Vapor Condensate, it was decided to conduct this study with Gasoline TAME Vapor Condensate
2. Substitution of test substance.
3. Delay of study because of substitution of test substance.
4. Study 00-6128 is the subchronic study with Gasoline TAME Vapor Condensate
5. Clarification of procedures for the dams and their litters.
6. Clarification of procedures for the weighing of the gonads.

Huntingdon Life Sciences Study No. 00-4202
Sponsor Study No. 211-TAME-1G

Page 2 of 2
Final Protocol

Protocol Amendment No. 1

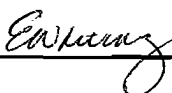
Amendment approved by:



IACUC
Huntingdon Life Sciences

24 Aug

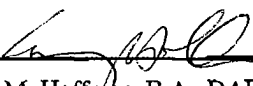
Date



IACUC
Huntingdon Life Sciences

24 AUG 01

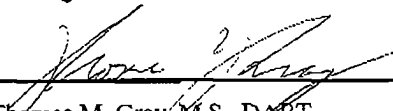
Date



Gary M. Hoffman, B.A., DABT
Study Director
Huntingdon Life Sciences

24 Aug 01

Date



Thomas M. Gray, M.S., DABT
Sponsor Representative
American Petroleum Institute

22 August, 2001

Date

Huntingdon Life Sciences Study No. 00-4202
Sponsor Study No. 211-TAME-1G

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Final Protocol

Protocol Amendment No. 2

Study Title: Gasoline TAME Vapor Condensate: A 1-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Changes

Sperm Count, Motility and Morphology Assessments, Page 24:

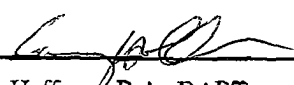
Revise:

The left vas deferens will be excised and placed in a prewarmed solution of phosphate buffered saline and 1% Bovine Serum Albumin. After a minimum three minute "swimout" period, a sample will be placed in a Hamilton Thorne IVOS sperm analyzer. **Five fields will be selected and stored as digital images.** ~~and five fields will be stored on an optical disk.~~ These ~~images~~ fields will subsequently be analyzed for percent motility and transferred to **optical media for permanent storage.**

Reasons for Changes

To clarify the sperm motility evaluation procedures.

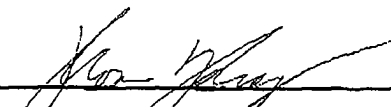
Amendment approved by:



Gary M. Hoffman, B.A., DABT
Study Director
Huntingdon Life Sciences

28 Sept 01

Date



Thomas M. Gray, M.S., DABT
Sponsor Representative
American Petroleum Institute

28 September, 2001

Date

Huntingdon Life Sciences Study No. 00-4202
Sponsor Study No. 211-TAME-1G

Page 1 of 2
Final Protocol

Protocol Amendment No. 3

Study Title: Gasoline TAME Vapor Condensate: A 1-Generation Whole-Body
Inhalation Reproduction Toxicity Study in Rats

Changes

1. Age and Weight and Acclimation Period, page 11:

Add: The animals were approximately 7 weeks of age at initiation of the exposures following an approximately 3.5 weeks acclimation period.

2. Frequency and Duration of Inhalation Administration, page 15:

Revise: P₀ females with no confirmed day of mating would continue to be exposed for 25 days following completion of the mating period and then euthanized.

3. Sperm Count, Motility and Morphology Assessments, page 24:

Add: If a macroscopic abnormality is noted on the left testis or left epididymis, then the right testis and right epididymis will be transferred to PAI and the left testis and left epididymis will be preserved as indicated for possible histopathology.

4. Microscopic Pathology Evaluations, page 25:

Add: The male reproductive tissues (epididymis, prostate, seminal vesicle and testis) will be evaluated for the remaining 16 parental male rats per groups I and IV.

5. Statistical Evaluations/Continuous Data, page 26:

Add: Estrous Cycle data

6. Data Tabulations for Litters and Pups, page 29:

Delete: Pup day of sexual maturation and body weight at sexual maturation

Reasons for Changes

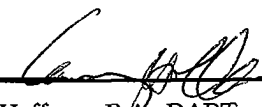
1. There was a 1 week delay (see Protocol Amendment No. 1) in starting this study.
 2. Clarification of procedures.
 3. Clarification of procedures.
 4. A few Group IV males that were initially evaluated had sporadic occurrence of lesions affecting the genital system.
 5. Oversight in original protocol.
 6. The pups are not retained on test until sexual maturation.
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Huntingdon Life Sciences Study No. 00-4202
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Page 2 of 2
Final Protocol

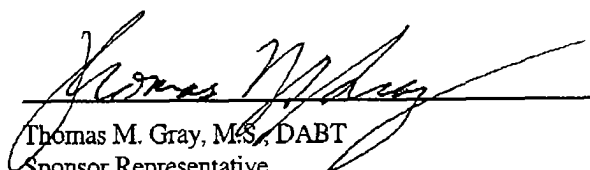
Protocol Amendment No. 3

Amendment approved by:



Gary M. Hoffman, B.A., DABT
Study Director
Huntingdon Life Sciences

13 June 02
Date



Thomas M. Gray, M.S., DABT
Sponsor Representative
American Petroleum Institute

06 June, 2002
Date


	Testing Facility Personnel	Appendix EE
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TITLE/DEPARTMENT	NAME/DEGREE
VICE PRESIDENT, SAFETY ASSESSMENT	Sylvie J. Gosselin, D.V.M., Ph.D., Diplomate A.C.V.P.
VICE PRESIDENT, QUALITY ASSURANCE AND TOXICOLOGY OPERATIONS	Michael Caulfield
VICE PRESIDENT, ANALYTICAL SERVICES	Dari Dadgar, Ph.D.
DIRECTOR, DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY	Robert M. Parker, Ph.D., D.A.B.T.
DIRECTOR, QUALITY ASSURANCE	Nicki S. Iacono, B.S.
STUDY DIRECTOR	Gary M. Hoffman, B.A., D.A.B.T.
PATHOLOGIST	Katharine M. Whitney, D.V.M., Ph.D., Diplomate A.C.V.P.
STUDY MONITOR	Brian P. Colfer, B.S.
VETERINARIAN	Teresa S. Kuszniir, V.M.D.
MANAGER/SUPERVISOR	
Study Monitors	Ron Brzozowski, B.A.
Rodent Toxicology Inhalation Pharmacy	Ellen H. Whiting, AALAS LAT
Analytical Services	Kay Saladdin, B.S.
Pathology Services	Barbara A. Litzenberger, B.S., M.T. (ASCP)

	Report Amendments	Appendix FF
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The following is a list of changes made to the final report.

Page No.	Change #1	Reason for Change
4	Added inspection of the report amendment and changed pages to the Quality Assurance Statement. Statement was re-signed.	An additional audit was performed.
32	Item No. 7 was added to the list of protocol deviations.	Deviation was omitted from the original report.
115-116	Table 22, Summary of Pup Organ Weight Data, Group II Mean and Standard Deviations for Brain Weight, Brain Weight of Female Pups, Brain to Body Weight Ratio and Brain Weight to Body Weight Ratio of Female Pups was corrected.	Brain weight for female pup number 2620-10 was corrected.
508	Appendix Y, Individual Pup Organ Weights (grams) and Organ/Body Weight Ratios (%), brain weight for female pup number 2620-10 was corrected from 1.485 g to 1.495 g, and the brain to body weight ratio was re-calculated from 1.864% to 1.876%.	The brain weight for this female pup was incorrect in the original report.



Gary M. Hoffman, B.A., D.A.B.T.
Study Director

19 May 2009

Date