

STUDY NO. 00-4205  
SPONSOR STUDY NO. 211-DIPE-1G  
GASOLINE DIPE 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: 4 August 2011

Page 1 of 636

---

**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 Director

---

Date

---

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

---

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 Director	Date
---	------

---

Kevin Keane, D.V.M., Ph.D. Director of Pathology <sup>1</sup>	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 Toxicology	Date
--	------

---

Sylvie J. Gosselin, D.V.M., Ph.D., Diplomate A.C.V.P. Vice President, Safety Assessment	Date
--	------

---

<sup>1</sup>Katharine 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. Kevin Keane is assuming responsibility for finalization of the pathology evaluation of this report.

**QUALITY ASSURANCE STATEMENT**

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. This report reflects the raw data as far as can be reasonably established.

<b>Type of Inspection</b>	<b>Date(s) of Inspection</b>	<b>Reported to Study Director and Management</b>
Pathology Associates Facility Inspection	24 Apr 01	02 Nov 01
GLP Protocol Review	01 Apr 02	01 Apr 02
Exposure, Monitoring and Equipment Records	20 May 02	20 May 02
Body and Feeder Weights	17 Jun 02	17 Jun 02
Estrous Determination	09 Jul 02	09 Jul 02
Litter Checks and Daily Viability Check	20 Aug 02	20 Aug 02
Male Necropsy and Sperm Assessment	10 Sep 02	11 Sep 02
Maternal & Pup Necropsy and Training Records	17 Sep 02	17 Sep 02
Final Analytical Report and Study Data	7-10, 20 and 21 Jan 03	21 Jan 03
Final Report Draft and Study Data	09, 10, 13-17, 20-24, 26, 27 Jan 03	27 Jan 03
Final Report Review	04-17 Feb 10	17 Feb 10

---

Lesley Piccoli  
Quality Assurance Auditor

---

Date

**Gasoline DIPE 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 DIPE 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/m<sup>3</sup> for 6 hours/day, 7 days/week for 10 weeks before mating, for up to 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 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 (P<sub>0</sub> generation) were sacrificed. All parental female animals (P<sub>0</sub> generation) were sacrificed on Lactation Day 28. 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 randomly selected parental animals.

Pups (F<sub>1</sub> 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 4<sup>th</sup> 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 28<sup>th</sup> day after parturition at which time they were sacrificed. A macroscopic postmortem evaluation and the weighing of selected organs were performed on randomly selected pups.

The mean ( $\pm$  standard deviation) analytical exposure concentrations of Gasoline DIPE Vapor Condensate were determined to be  $0 \pm 0$ ,  $2034 \pm 128$ ,  $10260 \pm 621$  and  $20230 \pm 775$  mg/m<sup>3</sup> for the Air Control and the exposure groups, respectively. The

---

## SUMMARY

analytically measured exposure levels of the airborne test substance were acceptably close to the targeted exposure levels. The measured and nominal concentrations varied somewhat (less than 3%), but acceptably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 25°C temperature and 46% 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 acceptably 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 weight gain, feed consumption, estrous cycle (as measured by cycle length and number of estrous cycles), mating indices for the male rats and mating or fertility or 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. 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 spermatid count, sperm morphology and caudal epididymis weight were not affected by treatment with the test substance at an exposure level of 20000 mg/m<sup>3</sup>.

There were no exposure-related differences in terminal estrous evaluations in the test substance exposed animals compared to the Air Control animals. Scattered macroscopic postmortem observations such as lung discoloration were noted in a treatment-related pattern, but in absence of any effects on lung weights or histopathology, were not considered adverse findings. Exposure-related effects on organ weights included statistically significant increases in liver weights (absolute and/or relative to body weight or brain weight) at the 2 higher exposure levels in the males. Exposure-related effects on organ weights also included statistically significant increases in kidney weights (absolute and/or relative to body and brain weight) at the 2 higher exposure levels in the males. These differences for the males were consistent with the hydrocarbon nephropathy

---

**SUMMARY**

findings at these exposure levels in the 13-week inhalation study with this same test substance. 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 for clinical observations and body weights and weight gains during the lactation period. 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/m<sup>3</sup> of vapor of Gasoline DIPE Vapor Condensate resulted in no effects on the exposed parental animals prior to their termination. However, increases in liver weights in parental male animals exposed to 10000 and 20000 mg/m<sup>3</sup> of vapor were seen. Increases in kidney weights in parental male animals exposed to the two higher exposure levels of vapor were consistent with hydrocarbon nephropathy seen in similar animals exposed for 13 weeks to this test substance. 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. Therefore, a no observable effect level (NOEL) of 2000 mg/m<sup>3</sup> was determined. There was no effect at any of the exposure levels on reproductive performance in the study, including mating, fertility, parturition, lactation and offspring survival and development for 28 days after birth. Therefore, with respect to reproductive performance, a no observable effect level (NOEL) of 20000 mg/m<sup>3</sup> was determined.

**TABLE OF CONTENTS**

COVER PAGE.....	1
STATEMENT OF COMPLIANCE.....	2
SIGNATURE PAGE .....	3
QUALITY ASSURANCE STATEMENT .....	4
SUMMARY .....	5
TABLE OF CONTENTS.....	8
<b>1. INTRODUCTION.....</b>	<b>11</b>
<b>2. MATERIALS AND METHODS</b>	
2.1. Study Management .....	11
2.2. Study Dates .....	11
2.3. Experimental Outline .....	13
2.4. Test Substance .....	14
2.5. Test Animals .....	15
2.6. Animal Assignment .....	16
2.7. Animal Identification .....	17
2.8. Veterinary Care.....	17
2.9. Animal Husbandry During Non-Exposure Periods .....	17
2.10. Test Substance Administration and Chamber Operation.....	20
2.11. Experimental Evaluations .....	20
2.12. Mating, Gestation and Lactation Procedures.....	21
2.13. Postmortem .....	23
2.14. Sperm Count, Motility and Morphology Assessments.....	27
2.15. Statistical Analysis.....	28
2.16. Data Storage.....	30
2.17. Regulatory References.....	30
2.18. Protocol Deviations.....	31
<b>3. RESULTS AND DISCUSSION</b>	
3.1. Chamber Monitoring.....	33
3.2. Parental Data.....	35
3.3. Pup Data.....	38
3.4. Postmortem Data.....	39
<b>4. CONCLUSION .....</b>	<b>41</b>



---

**TABLE OF CONTENTS**

REFERENCES .....	42
CALCULATIONS .....	43
GENERAL PREFACE .....	44

**TABLES**

1. Summary of Survival and Pregnancy .....	45
2. Summary of Clinical Observations - (Premating/Mating/Postmating).....	46
3. Summary of Clinical Observations During Gestation.....	52
4. Summary of Maternal Clinical Observations During Lactation .....	53
5. Mean Body Weight Values – (Premating/Mating/Postmating) .....	54
6. Mean Body Weight Gain - (Premating /Mating/Postmating) .....	59
7. Summary of Gestation Body Weights .....	64
8. Summary of Gestation Body Weight Gain .....	65
9. Summary of Maternal Lactation Body Weights.....	66
10. Summary of Maternal Lactation Body Weight Gain .....	67
11. Mean Feed Consumption (grams/kg/day) - (Premating/Postmating) .....	68
12. Summary of Gestation Feed Consumption (grams/kg/day).....	72
13. Summary of Lactation Feed Consumption (grams/kg/day) .....	73
14. Summary of Estrous Stages.....	74
15. Summary of Cohabitation Data.....	75
16. Summary of Delivery and Litter Data .....	76
17. Summary of Pup Clinical Observations During Lactation.....	80
18. Summary of Mean Pup Body Weights and Body Weight Gain.....	81
19. Summary of Parental Necropsy Observations .....	87
20. Summary of Pup Necropsy Observations .....	92
21. Summary of Parental Organ Weights .....	99
22. Summary of Pup Organ Weights .....	112
23. Lesion Incidence Summary with Expanded Severity Levels.....	116

**APPENDICES**

A. Inhalation Report .....	121
B. Analytical Report.....	173
C. Individual Animal Termination History .....	203
D. Individual Clinical Observations - (Premating/Mating/Postmating) .....	211
E. Individual Clinical Observations During Gestation .....	233
F. Individual Maternal Clinical Observations During Lactation.....	241
G. Individual Body Weights - (Premating/Mating/Postmating) .....	253
H. Individual Body Weight Gain - (Premating/Mating/Postmating).....	270

---

**TABLE OF CONTENTS**

I.	Individual Gestation Body Weights.....	283
J.	Individual Gestation Body Weight Gain .....	288
K.	Individual Maternal Lactation Body Weights .....	293
L.	Individual Maternal Lactation Body Weight Gain.....	298
M.	Individual Feed Consumption (grams/kg/day) - (Premating/Postmating).....	303
N.	Individual Gestation Feed Consumption (grams/kg/day) .....	312
O.	Individual Maternal Lactation Feed Consumption (grams/kg/day).....	317
P.	Individual Estrous Cycle and Mating Data.....	322
Q.	Individual Mating Assignments .....	330
R.	Individual Delivery and Litter Data .....	334
S.	Individual Pup Sex and Status During Lactation.....	338
T.	Individual Pup Clinical Observations During Lactation .....	342
U.	Individual Pup Body Weights .....	382
V.	Individual Parental Necropsy Observations .....	406
W.	Individual Pup Necropsy Observations .....	429
X.	Individual Parental Organ Weights.....	462
Y.	Individual Pup Organ Weights.....	491
Z.	Individual Animal Gross and Microscopic Observations .....	508
AA.	Sperm Analysis Report .....	550
BB.	Certificates of Analysis – (Feed, Water and Bedding) .....	564
CC.	Protocol and Protocol Amendments .....	598
DD.	Historical Control Data.....	630
EE.	Testing Facility Personnel.....	635
FF.	Report Amendments.....	636

## **1. INTRODUCTION**

This reproductive study was designed to provide general information concerning the effects of Gasoline DIPE 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**

6 May 2002 (Date Study Director signed the Protocol)

**2.2.2. DATE OF ANIMAL RECEIPT**

6 May 2002

**2.2.3. EXPOSURE INITIATION**

20 May 2002 (Experimental Start Date)

**2.2.4. MATING INITIATION**

28 July 2002

**2.2.5. EXPOSURE TERMINATION**

23 September 2002

**2.2.6. TERMINAL SACRIFICE**

P<sub>0</sub> Males: 10 – 11 September 2002

P<sub>0</sub> Females: 23 August 2002 – 24 September 2002

**2.2.7. EXPERIMENTAL TERMINATION DATE**

4 August 2011 (Date of last data collection = Date Pathologist signed the Final Report)

**2.2.8. STUDY COMPLETION**

4 August 2011 (Date Study Director signed the Final Report)

**2.3. EXPERIMENTAL OUTLINE**

Group	Group Designation	Exposure Levels (mg/m <sup>3</sup> ) <sup>a</sup>	Number of Animals				
			Mated Adults		Microscopic Pathology Adult Generations <sup>b</sup>		Macroscopic Postmortem Examinations-Pups
			P <sub>0</sub>		P <sub>0</sub>		
			M	F	M	F	F <sub>1</sub>
I	Control	0 (air only)	26	26	10	10	3/sex/litter
II	Low	2,000	26	26	0	0	3/sex/litter
III	Middle	10,000	26	26	0	0	3/sex/litter
IV	High	20,000	26	26	10	10	3/sex/litter

<sup>a</sup> Exposures daily (7 days/week) for 6 hours per day.

<sup>b</sup> Histologic examinations were performed on reproductive and select 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 DIPE 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-01-06

**2.4.3. PURITY/ANALYTICAL CONCENTRATION**

100% Gasoline DIPE Vapor Condensate

**2.4.4. DESCRIPTION**

Colorless Liquid

**2.4.5. DATES RECEIVED**

7 December 2001 & 5 August 2002

**2.4.6. EXPIRATION DATE**

Not available; stable per MSDS.

**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**

Ambient conditions in an outdoor solvent shed or in an indoor laboratory.

#### **2.4.9. DISPENSING**

The test substance was received from Chevron Texaco Energy Research and Technology Company 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 is 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 was returned to the Sponsor on 11 January 2007. Empty test substance containers were returned on an as needed basis. The Sponsor was responsible for tracking their disposition.

### **2.5. TEST ANIMALS**

Albino Rats (Outbred) VAF/Plus<sup>®</sup>

#### **2.5.1. SPECIES**

Sprague-Dawley derived CD<sup>®</sup>  
[CrI: CD<sup>®</sup> 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 for humans to detect adverse 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.

#### **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.

#### **2.5.5. AGE AT RECEIPT**

Approximately 28 days.

#### **2.5.6. AGE AT INITIATION OF EXPOSURES**

Approximately 42 days.

#### **2.5.7. WEIGHT AT INITIATION OF EXPOSURES (GRAMS)**

	<b>Mean</b>	<b>Range</b>
Male:	213	186 - 245
Female:	153	130 - 179

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 14 days. All animals were examined during the acclimation period to confirm suitability for study.

### **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 pretest physical examinations, were randomly assigned, by sex, to control or treated group, in an attempt to equalize mean group body weights.



## 2.7. ANIMAL IDENTIFICATION

Each rat was assigned a temporary identification number upon receipt. After selection for study (P<sub>0</sub> 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 article-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 BB. 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-East 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 BB. 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<sup>®</sup> 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 each batch of bedding used on study can be found in Appendix BB. 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: 15.6 to 31.7°C  
Average: 18.5 to 26.4°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: 15.7 to 100.0%  
Average: 22.0 to 75.5%

#### **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: 14.6 – 14.7 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, and weekly thereafter during the study period. Females were then continuously observed weekly until there was evidence of mating. 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, 4, 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 except they were performed pre-exposure during the gestation and lactation periods.

### **2.11.3. BODY WEIGHT**

Each parental animal was removed from its cage and weighed twice pretest, 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 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) =

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

<sup>a</sup>The 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 the estrous cycle was determined for each P<sub>0</sub> female beginning on Test Day 49, three weeks prior to cohabitation, and continued until there was evidence of mating or until the 14-day mating period ended on Test Day 83.

#### **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 (F<sub>1</sub>)**

#### **Observations**

F<sub>1</sub> 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 (lung floatation test to distinguish stillborn and found dead pups) and preserved in neutral, phosphate-buffered 10% formalin. Autolyzed remains found on the day of parturition were presumed to be stillborn. 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 F<sub>1</sub> 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 F<sub>1</sub> 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**

### **2.13.1. PARENTAL ANIMALS (P<sub>0</sub>)**

#### **Necropsy Information**

Necropsy was performed on up to 26 animals/sex/group. All P<sub>0</sub> males were euthanized after the last day that the F<sub>1</sub> litters were delivered. All P<sub>0</sub> females with litters were euthanized on Day 28 of lactation. P<sub>0</sub> females with no confirmed day of mating were euthanized on last possible Gestation Day 25. P<sub>0</sub> females with confirmed days of mating that did not deliver were euthanized on Gestation Day 25. Animals were fasted overnight prior to necropsy.

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, 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 P<sub>0</sub> females included a vaginal smear to determine the stage of the estrous cycle and a count of uterine implantation scars, if present.

### **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 per sex per group in the 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 through the caput, corpus and cauda regions to permit detection of



lesions such 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  $\mu\text{m}$  apart from the inner third of each ovary permitting detection of depletion of the primordial follicle population and enumeration of the total number of primordial follicles for comparison with the ovaries from control animals. These examinations also confirmed the presence or absence of growing follicles and corpora lutea in comparison to control ovaries.

**TABLE I**

<b>ORGAN NAME</b>	<b>WEIGHED</b>	<b>PRESERVED</b>	<b>EXAMINED MICROSCOPICALLY (Groups I and IV)</b>
adrenal glands	X	X	X
brain (medulla, pons, cerebrum and cerebellum)	X	X	
epididymides (total and caudal)	X	X <sup>a</sup>	X <sup>a</sup>
kidneys	X	X	
liver	X	X	
lungs (with mainstem bronchi)	X	X	X
ovaries	X	X	X
pituitary gland	X	X	X
prostate gland	X	X	X
seminal vesicles with coagulating glands	X	X	X
spleen	X	X	
testes	X	X <sup>a</sup>	X <sup>a</sup>
uterus (body/horns) with cervix and oviducts	X	X	X
vagina		X	X
tissues with macroscopic findings including tissue masses		X	X

<sup>a</sup>Right testis and epididymis only.

### **Preservatives**

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

Testes and epididymides were placed in Modified Davidson's solution initially and then retained in 10% 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.

## **2.13.2. F<sub>1</sub> PUPS**

### **Method of Euthanasia**

Culled F<sub>1</sub> pups, or those sacrificed prior to the day of weaning, were euthanized by IP injection of sodium pentobarbital. Weanlings were euthanized by exsanguination after anesthesia with carbon dioxide.

### **Dead and Culled Pups**

F<sub>1</sub> pups found dead at birth were identified (lung floatation test) as stillborn or live-born but found dead. F<sub>1</sub> 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 or preserved intact in 10% NBF. Culled F<sub>1</sub> pups were examined for external abnormalities. If unremarkable, these pups were then euthanized and discarded. Culled F<sub>1</sub> 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 F<sub>1</sub> 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.

## **2.14. SPERM COUNT, MOTILITY AND MORPHOLOGY ASSESSMENTS**

The following sperm evaluations were conducted for all control and high exposure P<sub>0</sub> males (samples and images were collected but not evaluated for all other males): 1) motility; 2) a count of homogenization-resistant testicular spermatids; 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 spermatids.

(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.

## **2.15. STATISTICAL ANALYSIS**

### **2.15.1. CONTINUOUS DATA**

The following parameters were analyzed statistically:

- Body weights
- Body weight change
- Feed consumption values
- Organ weight data
- Estrous cycle 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.

For all parameters, the standard one-way analysis of variance (ANOVA) using the F ratio to assess significance was used (Dunlap and Duffy, 1975). If significant differences among the means were indicated, additional testing was performed using Dunnet's t-test to determine which means were significantly different from the control (Dunlap et al., 1981). All 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.

Dose 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.

### **2.15.2. SPERM AND MOTILITY ANALYSIS**

The following parameters were analyzed statistically:

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

A Kruskal-Wallis nonparametric 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 was used for pair-wise comparisons of each treated group to the vehicle control group. Statistics were performed using an IBM compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

### **2.15.3. 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 4-28)

### **Incidence Data Analysis**

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

## **2.16. 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.

## **2.17. REGULATORY REFERENCES**

### **2.17.1. 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 will only continue through the 1<sup>st</sup> generation of offspring.

### **2.17.2. 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' and Pathology Associates International's Standard Operating Procedures.

### **2.17.3. ANIMAL WELFARE ACT COMPLIANCE**

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.

### **2.18. 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 supplier error, Charles River Laboratories did not supply male and female animals from different rooms. Therefore, the mating of male and female littermates, prohibited by protocol, may have occurred.
2. Due to technician error, Group II female Animal No. 2543 was not co-housed with a male on 30 July 2002, the mating initiation date. The animal was co-housed on 31 July 2002.
3. Due to technician error, Group II female Animal No. 2542 was found pregnant on 30 July 2002 but was not separated from the male until 31 July 2002. As a result, feed consumption was not initiated until 31 July 2002 which was Gestation Day 1.
4. Due to technician error, Group IV female Animal No. 4542 was inadvertently loaded into the exposure chamber and exposed on Gestation Day 20.
5. Due to technician error, Group I animals were unloaded from the exposure chamber prior to completion of the 30 minute clearing period on 25 August 2002.
6. Due to technician error, the disposition of the extra animals not used on study was not recorded in the Study File. The animals would have been euthanized or transferred to the in-house colony.

7. Due to equipment malfunction, sperm motility images were not captured for Group I Animal No. 1026 and Group IV Animal No. 4026.
8. Although not required, a lung floatation test was performed for Pup No. 3534-1 which was found dead on Lactation Day 1.
9. Due to technician error, there is no documentation that the spleen was collected for Animal Nos. 1039, 1041, 1043, 1044 and 1049 and no saved tissues could be located for these animals.
10. Weanling pups from Dam No. 4538 (pups 2 through 11) were euthanized via an intraperitoneal injection of sodium pentobarbital instead of by exsanguination after anesthesia with carbon dioxide.
11. Although partially cannibalized pups were to be discarded, tissues were saved for Pup No. 2538-4, found dead and partially cannibalized, on Lactation Day 1.
12. Due to technician error, left testis specimens were stored at  $-70^{\circ}\text{C}$  prior to processing instead of  $-20^{\circ}\text{C}$ .



### 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 <sup>3</sup> )	Analytical Concentration (mg/m <sup>3</sup> )	Nominal Concentration (mg/m <sup>3</sup> )
I	Air Control	0	0 $\pm$ 0	0 $\pm$ 0
II	Gasoline DIPE Vapor Condensate	2000	2034 $\pm$ 128	2086 $\pm$ 116
III	Gasoline DIPE Vapor Condensate	10000	10260 $\pm$ 621	10231 $\pm$ 422
IV	Gasoline DIPE Vapor Condensate	20000	20230 $\pm$ 775	19903 $\pm$ 635

The analytically measured exposure levels of the airborne test substance were acceptably close, in the opinion of the study director, to the targeted exposure levels. The measured and nominal concentrations varied somewhat (less than 3%), but acceptably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 25°C temperature and 46% relative humidity.

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

<b>Group</b>	<b>Test Substance</b>	<b>Mass Median Aerodynamic Diameter (µm)</b>	<b>Geometric Standard Deviation</b>	<b>Total Mass Concentration (mg/m<sup>3</sup>)</b>
I	Air Control	2.478	2.117	6.31 x 10 <sup>-3</sup>
II	Gasoline DIPE Vapor Condensate	1.930	2.074	6.28 x 10 <sup>-3</sup>
III	Gasoline DIPE Vapor Condensate	1.974	2.281	7.75 x 10 <sup>-3</sup>
IV	Gasoline DIPE Vapor Condensate	2.142	2.182	7.83 x 10 <sup>-3</sup>

These results indicated that the atmospheres were essentially vapor only, as expected, since there was no substantial difference between the test substance chambers and the Air Control chamber.

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 acceptably 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 (P<sub>0</sub> GENERATION)**

#### **3.2.1. MORTALITY**

**(Tables 1, 3 and 4; Appendices C, E and F)**

There was no effect of treatment on survival. One male rat (#3043) in the 10000 mg/m<sup>3</sup> group was humanely sacrificed on Day 23 due to an injury to the animal's snout. Another male rat (#3044) in the 10000 mg/m<sup>3</sup> group was found dead on Day 110 with no prior clinical signs or body weight effects. However, the gross necropsy examination found an extremely enlarged spleen and liver and discolored thymus.

One female rat (#2536) in the 2000 mg/m<sup>3</sup> group was humanely sacrificed on Day 78 (during the gestation phase) due to an injury to the animal's teeth. Another female rat (#4538) in the 20000 mg/m<sup>3</sup> group was humanely sacrificed on Day 106 (during the lactation phase) due to an injury to the animal's snout.

#### **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 (afternoon evaluations) during the pre-mating 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 and lacrimation were noted but were not 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. While a few statistically significant differences in body weight gain were seen at several intervals in

the test substance exposed animals, these were not in a treatment-related pattern.

#### **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. The slightly greater weight gain during gestation, well within normal variation, is most likely due to the slightly larger litter sizes in the exposed groups. While a statistically significant decrease in weight gain was noted for the mid-level exposed group from days 21 to 28 during the lactation period, this was not in a treatment-related pattern. The variations in gain and loss patterns among the groups during lactation suggest that these weight changes are natural fluctuations in lactating animals and not linked specifically to exposure.

#### **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. While a few statistically significant differences were noted at various intervals, the absolute differences were generally small and were 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 and lactation periods in the test substance exposed animals compared to the Air Control animals. While statistically significant increases were noted at two intervals for the mid-level exposed group during the lactation period, these were not considered as adverse responses because modestly increased feed consumption (as opposed to decreased feed consumption)

especially in the absence of a dose response pattern is not identified as a potentially toxic effect.

### **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. One female in each of the Control and 10000 mg/m<sup>3</sup> exposed groups showed signs of having entered pseudopregnancy, with prolonged diestrus after the first or second estrus while paired with a male, and did not produce a litter. One female in each of the 2000 and 20000 mg/m<sup>3</sup> exposed groups also showed this pattern, but they were found pregnant and it was concluded that the mating evidence at the first estrus while paired with the male had not been observed. One female in the 20000 mg/m<sup>3</sup> exposed group showed an abnormal cycle (irregular length and then persistent estrus) and did not become pregnant. These occurrences were considered incidental.

### **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 and normal for this strain of animal. Most of the females in each group mated at the first opportunity (first estrus after initial pairing) with only occasional animals mating at the second estrus. 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)**

There were no treatment related inter-group differences among the parturition and pup survival parameters. The number of implantation sites per dam, the number of pups delivered (live or dead), subsequent viability (to Day 4 and then to Day 21 post-partum) and sex ratio were normal for this strain of animal. Statistically significant differences between treated groups and the Air Control group were a result of the incidental finding that the Air Control group lost more pups due to a total litter loss in one dam prior to Day 4 post partum.

### **3.3. PUP DATA (F<sub>1</sub> 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**

**(Tables 16 and 18; Appendix U)**

There was a slight, uniform reduction in pup body weight performance over the first 4 days after birth across the groups exposed to the test substance, as compared with Air Control. This was commensurate with the slightly larger live litter size in these groups, as compared with Air Control, and was considered not to represent an adverse effect of treatment. Following the 'standardization' of live litter size (via culling) at Day 4 after birth, pup body weight performance became uniform across all the groups.

### **3.4. POSTMORTEM DATA**

#### **3.4.1. TERMINAL ESTROUS AND MACROSCOPIC POSTMORTEM EVALUATIONS - PARENTAL GENERATION**

**(Table 19; Appendices V and Z)**

There were no exposure-related differences in terminal estrous evaluations in the test substance exposed animals compared to the Air Control animals. Scattered macroscopic postmortem observations such as lung discoloration were noted in a treatment-related pattern, but in absence of any effects on lung weights or histopathology (see following sections), these findings were not considered adverse.

#### **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 the 2 higher exposure levels in the males. These differences for the males were consistent with the hydrocarbon nephropathy findings at the 20000 mg/m<sup>3</sup> exposure level in the 13-week inhalation study 00-6130 with this same test substance. However, these same findings were not seen microscopically with these test animals. Also, 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.

Exposure-related effects on organ weights also included statistically significant increases in liver weights (absolute and/or relative to body weight or brain weight) at the 2 higher exposure levels in the males. These may have been the result of enzyme induction by the test substance but were not correlated with any histopathology finding (see following section).

A few other statistically significant differences from Air Control were apparent. The differences in testis weight at 20000 mg/m<sup>3</sup> (relative to brain weight only) and epididymis weight at 10000 and 20000 mg/m<sup>3</sup> were of a very small magnitude (in the region of 5-8%) and were discounted as being of no biological significance. Equally, the difference in seminal vesicle/coagulating gland weight (approximately 17% higher in the 20000 mg/m<sup>3</sup> group) was not considered to be of definitive toxicological significance, considering also that neither the histopathological examinations nor the sperm evaluations revealed any evidence of treatment related change in any of these organs (see relevant sections 3.4.3 and 3.4.6).

### **3.4.3. SPERM EVALUATIONS – PARENTAL GENERATION**

#### **(Appendix AA)**

Mean percent motility, epididymal sperm count, homogenization-resistant testicular spermatid count, sperm morphology and caudal epididymis weight were not affected by treatment at an exposure level of 20,000 mg/m<sup>3</sup>. No biologically meaningful differences were observed between the study groups.

### **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 such as dilated renal pelvis 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 in thymus weights (relative to body weight) were noted for the low- and mid-exposure groups. However, these



were not in a treatment-related pattern and were comparable to historical control data (see Appendix DD).

### **3.4.6. HISTOPATHOLOGICAL EVALUATIONS - PARENTAL GENERATION**

**(Table 23; Appendix Z)**

No test substance related microscopic changes were noted in male and female reproductive organs or other protocol-specified tissues in this study. 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/m<sup>3</sup> of vapor of Gasoline DIPE Vapor Condensate resulted in no effects on the exposed parental animals prior to their termination. However, increases in liver weights in parental male animals exposed to 10000 and 20000 mg/m<sup>3</sup> of vapor were seen. Increases in kidney weights in parental male animals exposed to the two higher exposure levels of vapor were consistent with hydrocarbon nephropathy seen in similar animals exposed for 13 weeks to this test substance. 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. Therefore, a no observable effect level (NOEL) of 2000 mg/m<sup>3</sup> was determined. There was no effect at any of the exposure levels on reproductive performance in the study, including mating, fertility, parturition, lactation and offspring survival and development for 28 days after birth. Therefore, with respect to reproductive performance, a no observable effect level (NOEL) of 20000 mg/m<sup>3</sup> was determined.

---

**REFERENCES**

- Dunlap, W.P. and Duffy, J.A. 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., Marx, M.S. and Agamy, G.G. 1981. Fortran IV functions for calculating probabilities associated with Dunnett's test. *Behav. Res. Methods and Instrumentation* 13: 363-366.
- Dunnett, C.W. 1955. A multiple comparison procedure for comparing several treatments with a control. *Journal of the American Statistical Association* 50: 1096-1121.
- Dunnett, C.W. 1964. New tables for multiple comparisons with a control. *Biometrics* 20-3: 482-491.
- Games, P.A. and Howell, J.F. 1976. Pairwise multiple comparison procedures with unequal n's and/or variances: a monte-carlo study. *Journal of Educational Statistics* 1: 113-125.
- Kruskal, W.H. and Wallis, W.A. 1952. Use of Ranks in One-Criterion Variance Analysis. *Journal of the American Statistical Association* 47: 583-621.
- Kruskal, W.H. and Wallis, W.A. 1953. Errata for Kruskal-Wallis (1952). *Journal of the American Statistical Association* 48: 907-911.
- Mantel, N. 1963. Chi-square test with one degree of freedom: extensions of the Mantel-Haenszel procedure. *Journal of the American Statistical Association* 58: 690-700.
- Seigel, S. 1956. Nonparametric Statistics for the Behavioral Sciences. McGraw-Hill.

	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

**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	
--	-----------------	--

### 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  
No = Number  
Gen. = General  
PG = Pregnant

Group	Group Designation	Exposure Levels (mg/m <sup>3</sup> )
I	Control	0 (air only)
II	Low	2,000
III	Middle	10,000
IV	High	20,000

TABLE 1 P0 GENERATION

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

## SUMMARY OF SURVIVAL AND PREGNANCY

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
No. of males at start	N	26	26	26	26
Premating					
- Died/sacrificed	N	0	0	1	0
Postmating					
- Died/sacrificed	N	0	0	1	0
No. of females at start	N	26	26	26	26
No. of females cohabitated	N	26	26	26	26
- Without evidence of mating	N	1	3	2	4
Pregnant	N	0	1	0	1
Nonpregnant	N	1	2	2	3
Pregnant	N	22	24	24	23
- Died/sacrificed	N	0	1	0	0
- Died delivering	N	0	0	0	0
- Died/sacrificed post partum	N	0	0	0	1
- Aborted died/sacrificed	N	0	0	0	0
Nonpregnant	N	4	2	2	3
- Died/sacrificed	N	0	0	0	0
Total females died/sacrificed	N	0	1	0	1
	%	0.0	4.3	0.0	4.5
Dams delivering	N	22	23	24	23
- With liveborn pups	N	22	23	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

	Summary of Clinical Observations Preface	Table 2
--	---	---------

Number of animals examined represents the total number of animals observed and animals, which were found dead, died accidentally or were killed in a moribund condition or at a scheduled sacrifice for a given interval. Deaths occurring between scheduled observation intervals are presented at the next scheduled interval.

For summarization purposes, descriptive comments [i.e., location of scab(s) and/or sore(s), etc.] are not presented in this table. These data are contained in the study raw data if needed.

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/m <sup>3</sup>
Group II	-	2,000 mg/m <sup>3</sup>
Group III	-	10,000 mg/m <sup>3</sup>
Group IV	-	20,000 mg/m <sup>3</sup>

Generation Intervals:

**P<sub>0</sub> Animals**

Premating: Days -7 to 69

Mating: Days 70 to 83

Postmating: Days 84 to 112







TABLE 2 P0 GENERATION

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

## MALES

## SUMMARY OF CLINICAL OBSERVATIONS

	GROUP#	DAY OF STUDY															TOTAL				
		-7	0	7	14	21	28	35	42	49	56	63	70	77	84	91		98	105	112	
# 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	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
CHROMODACRYORRHEA - UNILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	3	
	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	1	0	0	0	0	0	0	2	
	IV	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	2	2
LACRIMATION - UNILATERAL	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	0
	III	0	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	1	1
Oral/Buccal																					
INCISORS BROKEN/MISSING	I	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	2	2	2	3	
	II	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	3	
	III	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	
	IV	0	0	0	0	0	0	0	0	1	0	1	2	2	4	3	3	3	3	4	
ORAL SORE	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	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	
INCISORS MALOCCLUDED	I	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	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	1	1	1	1	0	0	0	1	
	IV	0	0	0	0	0	0	0	1	2	1	3	3	3	3	4	3	3	3	4	

TABLE 2 P0 GENERATION

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

## FEMALES

## SUMMARY OF CLINICAL OBSERVATIONS

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

TABLE 2 P0 GENERATION

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

## FEMALES

## SUMMARY OF 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	22	1	1	1	1	1	1
	II	26	26	26	26	26	26	26	26	26	26	26	23	3	3	3	2	2	2
	III	26	26	26	26	26	26	26	26	26	26	26	23	2	2	2	2	2	2
	IV	26	26	26	26	26	26	26	26	26	26	26	23	4	4	4	3	3	3
ALOPECIA - GENERAL	I	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
	III	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1
	IV	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Ocular																			
CHROMODACRYORRHEA - UNILATERAL	I	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1
	II	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
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRIMATION - UNILATERAL	I	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1
	II	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
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oral/Buccal																			
INCISORS BROKEN/MISSING	I	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	2
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	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	1	0	0	0	0	0	0	0	1
INCISORS MALOCCLUDED	I	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	II	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	III	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	1	1	0	0	0	0	0	0	1

TABLE 3 P0 GENERATION

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

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

DOSE GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
-----				
DAY 0 to 20				
Normal				
-----				
WITHIN NORMAL LIMITS	79/20	69/18	91/23	80/20
HUMANE SACRIFICE	0/ 0	1/ 1	0/ 0	0/ 0
Gen. Appearance				
-----				
SWOLLEN DIGIT	2/ 1	0/ 0	0/ 0	0/ 0
MISSING DIGIT	2/ 1	0/ 0	0/ 0	0/ 0
Dermal-General				
-----				
ALOPECIA - EXTREMITIES/SNOUT	13/ 4	16/ 5	5/ 2	4/ 1
ALOPECIA - GENERAL	3/ 1	4/ 1	4/ 1	3/ 1
Ocular				
-----				
CHROMODACRYORRHEA - BILATERAL	0/ 0	1/ 1	0/ 0	0/ 0
CHROMODACRYORRHEA - UNILATERAL	4/ 1	0/ 0	0/ 0	0/ 0
Oral/Buccal				
-----				
INCISORS BROKEN/MISSING	4/ 1	1/ 1	0/ 0	0/ 0
INCISORS MALOCCLUDED	0/ 0	0/ 0	0/ 0	4/ 1
Room Check				
-----				
DECREASED FECAL VOLUME	0/ 0	1/ 1	0/ 0	0/ 0

TABLE 4 P0 GENERATION

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

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

DOSE GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
-----				
DAY 1 to 30				
Normal				
-----				
WITHIN NORMAL LIMITS	104/18	107/18	128/23	122/21
HUMANE SACRIFICE	0/ 0	0/ 0	0/ 0	1/ 1
TERMINAL SACRIFICE	22/22	23/23	24/24	22/22
Gen. Appearance				
-----				
EMACIATION	1/ 1	0/ 0	0/ 0	0/ 0
Dermal-General				
-----				
ALOPECIA - EXTREMITIES/SNOUT	19/ 4	30/ 5	15/ 3	8/ 2
ALOPECIA - GENERAL	6/ 1	6/ 1	4/ 1	6/ 1
YELLOW ANO-GENITAL STAINING	1/ 1	0/ 0	0/ 0	0/ 0
Ocular				
-----				
CHROMODACRYORRHEA - UNILATERAL	6/ 1	0/ 0	0/ 0	0/ 0
Oral/Buccal				
-----				
INCISORS BROKEN/MISSING	6/ 1	1/ 1	0/ 0	0/ 0
INCISORS MALOCCLUDED	0/ 0	0/ 0	0/ 0	6/ 1
Room Check				
-----				
INCISORS MALOCCLUDED	0/ 0	0/ 0	0/ 0	1/ 1
SWOLLEN SNOUT	0/ 0	0/ 0	0/ 0	1/ 1
RED EXUDATE SNOUT	0/ 0	0/ 0	0/ 0	1/ 1

TABLE 5 P0 GENERATION

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

MALES		MEAN BODY WEIGHT VALUES (GRAMS)			
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAY -7	MEAN	145	145	145	145
	S.D.	10.4	10.5	10.5	10.8
	N	26	26	26	26
DAY 0	MEAN	213	212	213	213
	S.D.	14.1	11.9	13.4	12.8
	N	26	26	26	26
DAY 7	MEAN	267	265	269	266
	S.D.	17.6	16.9	16.9	17.6
	N	26	26	26	26
DAY 14	MEAN	319	315	321	317
	S.D.	22.6	21.9	22.1	22.7
	N	26	26	26	26
DAY 21	MEAN	360	357	356	358
	S.D.	26.6	25.8	27.5	27.1
	N	26	26	26	26
DAY 28	MEAN	389	389	388	387
	S.D.	29.4	29.6	28.1	30.1
	N	26	26	25	26
DAY 35	MEAN	419	420	418	415
	S.D.	33.4	34.7	33.2	34.8
	N	26	26	25	26
DAY 42	MEAN	440	446	440	440
	S.D.	40.8	38.6	35.9	40.1
	N	26	26	25	26
DAY 49	MEAN	462	465	459	459
	S.D.	37.8	43.1	38.0	41.5
	N	26	26	25	26

No statistically significant differences

TABLE 5 P0 GENERATION

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

MALES		MEAN BODY WEIGHT VALUES (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000	
DAY	56	MEAN	480	482	480	478
		S.D.	40.3	45.0	40.4	46.6
		N	26	26	25	26
DAY	63	MEAN	494	499	491	489
		S.D.	42.2	48.3	41.4	51.3
		N	26	26	25	26
DAY	69	MEAN	506	511	503	496
		S.D.	45.5	49.5	44.8	58.8
		N	26	26	25	26
DAY	77	MEAN	516	520	513	509
		S.D.	46.4	50.4	44.7	55.5
		N	26	26	25	26
DAY	84	MEAN	528	535	527	526
		S.D.	49.7	51.5	45.8	58.1
		N	26	26	25	26
DAY	91	MEAN	535	543	534	536
		S.D.	52.0	53.6	47.5	57.7
		N	26	26	25	26
DAY	98	MEAN	549	554	545	545
		S.D.	54.4	55.1	50.8	59.7
		N	26	26	25	26
DAY	105	MEAN	557	562	557	555
		S.D.	55.9	56.0	49.6	61.8
		N	26	26	25	26
DAY	112	MEAN	570	572	570	566
		S.D.	57.0	58.0	51.6	63.8
		N	26	26	24	26

No statistically significant differences

TABLE 5 P0 GENERATION

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

FEMALES		MEAN BODY WEIGHT VALUES (GRAMS)			
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAY -7	MEAN	109	109	109	109
	S.D.	7.5	7.9	7.8	7.6
	N	26	26	26	26
DAY 0	MEAN	155	154	150	152
	S.D.	8.9	10.3	9.3	10.1
	N	26	26	26	26
DAY 7	MEAN	178	179	175	175
	S.D.	11.2	11.0	11.5	12.5
	N	26	26	26	26
DAY 14	MEAN	204	201	199	198
	S.D.	13.7	18.2	13.2	16.2
	N	26	26	26	26
DAY 21	MEAN	224	223	220	215
	S.D.	15.6	14.0	14.8	18.8
	N	26	26	26	26
DAY 28	MEAN	240	238	233	229
	S.D.	17.0	18.9	16.2	21.1
	N	26	26	26	26
DAY 35	MEAN	248	251	247	242
	S.D.	21.0	19.8	18.4	21.8
	N	26	26	26	26
DAY 42	MEAN	258	262	259	253
	S.D.	24.5	20.5	19.1	23.8
	N	26	26	26	26
DAY 49	MEAN	268	268	264	261
	S.D.	20.3	19.7	19.9	25.3
	N	26	26	26	26

No statistically significant differences



TABLE 5 P0 GENERATION

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

FEMALES		MEAN BODY WEIGHT VALUES (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000	
DAY	56	MEAN	273	275	273	267
		S.D.	21.2	20.4	20.3	25.7
		N	26	26	26	26
DAY	63	MEAN	278	278	276	273
		S.D.	21.3	23.1	22.5	27.3
		N	26	26	26	26
DAY	69	MEAN	283	283	279	278
		S.D.	20.6	21.0	20.1	28.7
		N	26	26	26	26
DAY	77	MEAN	264	282	296	280
		S.D.	0.0	6.6	22.6	20.2
		N	1	3	2	4
DAY	84	MEAN	268	294	301	291
		S.D.	0.0	14.9	10.0	29.6
		N	1	3	2	4
DAY	91	MEAN	272	303	293	314
		S.D.	0.0	29.0	19.4	44.5
		N	1	3	2	4
DAY	98	MEAN	284	292	310	285
		S.D.	18.2	14.5	16.7	29.9
		N	2	2	3	3
DAY	105	MEAN	288	299	311	290
		S.D.	8.6	7.1	19.8	29.5
		N	2	2	3	3
DAY	112	MEAN	310		307	
		S.D.	0.0		0.0	
		N	1		1	

No statistically significant differences

TABLE 5 P0 GENERATION

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

FEMALES

MEAN BODY WEIGHT VALUES (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 119	MEAN	311		312	
	S.D.	0.0		0.0	
	N	1		1	

No statistically significant differences

TABLE 6 P0 GENERATION

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

MALES			MEAN BODY WEIGHT GAIN (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000	
DAY	-7 TO	0	MEAN	68	67	67	67
			S.D.	7.8	5.0	7.7	6.2
			N	26	26	26	26
DAY	0 TO	7	MEAN	54	53	56	53
			S.D.	5.7	6.4	5.6	7.2
			N	26	26	26	26
DAY	7 TO	14	MEAN	52	50	52	52
			S.D.	7.6	6.3	8.5	8.4
			N	26	26	26	26
DAY	14 TO	21	MEAN	41	42	35	40
			S.D.	7.2	6.7	22.7	6.6
			N	26	26	26	26
DAY	21 TO	28	MEAN	30	31	29	29
			S.D.	10.5	6.3	6.8	6.6
			N	26	26	25	26
DAY	28 TO	35	MEAN	29	32	30	28
			S.D.	6.1	7.0	7.3	7.4
			N	26	26	25	26
DAY	35 TO	42	MEAN	22	26	23	24
			S.D.	22.2	5.7	5.2	9.3
			N	26	26	25	26

No statistically significant differences

TABLE 6 P0 GENERATION

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

MALES			MEAN BODY WEIGHT GAIN (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000	
DAY	42 TO	49	MEAN	22	19	19	20
			S.D.	16.8	6.5	6.8	7.3
			N	26	26	25	26
DAY	49 TO	56	MEAN	18	16	21	19
			S.D.	7.5	4.3	5.3	8.5
			N	26	26	25	26
DAY	56 TO	63	MEAN	13	17	11	11
			S.D.	9.5	5.8	5.3	12.3
			N	26	26	25	26
DAY	63 TO	69	MEAN	12	12	12	7
			S.D.	8.3	5.1	5.4	24.3
			N	26	26	25	26
DAY	69 TO	77	MEAN	10	9	9	13
			S.D.	9.5	4.9	4.3	15.6
			N	26	26	25	26
DAY	77 TO	84	MEAN	12	15	14	16
			S.D.	9.9	5.1	5.5	6.1
			N	26	26	25	26
DAY	84 TO	91	MEAN	7	8	8	10
			S.D.	5.1	6.4	6.2	6.5
			N	26	26	25	26

No statistically significant differences

TABLE 6 P0 GENERATION

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

MALES			MEAN BODY WEIGHT GAIN (GRAMS)			
DOSE GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000
DAY 91 TO 98	MEAN		14	11	11	9
	S.D.		4.8	6.3	6.1	6.4
	N		26	26	25	26
DAY 98 TO 105	MEAN		8	8	12*	10
	S.D.		5.9	5.0	6.5	5.8
	N		26	26	25	26
DAY 105 TO 112	MEAN		13	9*	12	10
	S.D.		5.7	4.3	5.6	5.6
	N		26	26	24	26
DAY 0 TO 69	MEAN		292	299	291	284
	S.D.		38.2	41.2	37.6	50.6
	N		26	26	25	26
DAY 0 TO 112	MEAN		356	360	358	353
	S.D.		48.5	49.7	44.5	54.8
	N		26	26	24	26

Statistical key: \* = p&lt;0.05

TABLE 6 P0 GENERATION

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

FEMALES			MEAN BODY WEIGHT GAIN (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000	
DAY	-7 TO	0	MEAN	46	45	42	43
			S.D.	7.1	6.5	6.8	6.5
			N	26	26	26	26
DAY	0 TO	7	MEAN	24	25	25	23
			S.D.	5.1	5.9	5.8	6.0
			N	26	26	26	26
DAY	7 TO	14	MEAN	26	22	24	24
			S.D.	5.8	15.2	6.1	6.2
			N	26	26	26	26
DAY	14 TO	21	MEAN	20	22	21	17
			S.D.	4.4	10.8	5.2	6.2
			N	26	26	26	26
DAY	21 TO	28	MEAN	15	15	12	14
			S.D.	5.1	8.3	6.7	7.9
			N	26	26	26	26
DAY	28 TO	35	MEAN	8	13	14**	12
			S.D.	6.8	7.6	6.8	4.8
			N	26	26	26	26
DAY	35 TO	42	MEAN	10	11	13	12
			S.D.	14.0	5.7	5.2	6.1
			N	26	26	26	26

Statistical key: \*\* = p&lt;0.01

TABLE 6 P0 GENERATION

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

FEMALES			MEAN BODY WEIGHT GAIN (GRAMS)				
DOSE GROUP DOSE LEVEL (MG/M3)			I 0	II 2000	III 10000	IV 20000	
DAY	42 TO	49	MEAN	10	6	5	8
			S.D.	11.8	5.6	4.3	6.7
			N	26	26	26	26
DAY	49 TO	56	MEAN	5	7	9	6
			S.D.	5.5	5.6	6.0	6.8
			N	26	26	26	26
DAY	56 TO	63	MEAN	5	4	3	5
			S.D.	5.8	7.4	5.8	6.3
			N	26	26	26	26
DAY	63 TO	69	MEAN	5	4	3	5
			S.D.	5.1	6.7	7.6	5.3
			N	26	26	26	26
DAY	0 TO	69	MEAN	129	129	129	126
			S.D.	16.4	16.6	15.2	22.7
			N	26	26	26	26

No statistically significant differences

TABLE 7 P0 GENERATION

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

## SUMMARY OF GESTATION BODY WEIGHTS (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 0	MEAN	280	280	278	275
	S.D.	19.3	24.9	22.4	28.8
	N	22	23	24	22
DAY 4	MEAN	301	304	301	299
	S.D.	20.7	23.5	25.0	32.1
	N	22	22	24	22
DAY 7	MEAN	309	313	312	309
	S.D.	21.6	23.9	26.8	33.7
	N	22	22	24	22
DAY 14	MEAN	336	340	339	337
	S.D.	24.4	24.7	28.2	35.5
	N	22	22	24	22
DAY 20	MEAN	392	396	393	397
	S.D.	31.2	30.7	33.6	41.6
	N	22	22	24	22

No statistically significant differences



TABLE 8 P0 GENERATION

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

## SUMMARY OF GESTATION BODY WEIGHT GAIN (GRAMS)

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAYS 0 TO 4	MEAN	22	21	23	23
	S.D.	5.4	5.3	6.0	7.0
	N	22	22	24	22
DAYS 4 TO 7	MEAN	8	9	11	11
	S.D.	4.2	3.8	3.2	6.7
	N	22	22	24	22
DAYS 7 TO 14	MEAN	26	27	27	28
	S.D.	5.4	3.8	4.6	10.2
	N	22	22	24	22
DAYS 14 TO 20	MEAN	56	56	54	60
	S.D.	14.3	13.2	18.7	11.4
	N	22	22	24	22
DAYS 0 TO 20	MEAN	113	113	115	122
	S.D.	20.0	15.5	20.4	17.8
	N	22	22	24	22

No statistically significant differences

TABLE 9 P0 GENERATION

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

## SUMMARY OF MATERNAL LACTATION BODY WEIGHTS (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 1	MEAN	309	304	306	304
	S.D.	24.6	22.2	27.8	31.5
	N	22	23	24	23
DAY 4	MEAN	317	323	321	321
	S.D.	28.5	23.4	27.3	27.5
	N	21	23	23	23
DAY 7	MEAN	318	329	328	329
	S.D.	35.4	20.9	23.4	28.2
	N	21	23	23	23
DAY 14	MEAN	340	345	346	348
	S.D.	24.0	19.4	22.6	30.1
	N	21	23	23	23
DAY 21	MEAN	331	334	343	343
	S.D.	21.8	21.0	23.1	28.3
	N	21	23	23	22
DAY 28	MEAN	308	312	310	311
	S.D.	24.1	23.3	22.3	29.9
	N	21	23	23	22

No statistically significant differences

TABLE 10 P0 GENERATION

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

## SUMMARY OF MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAYS 1 TO 4	MEAN	7	19*	16	16
	S.D.	21.1	8.5	11.2	12.4
	N	21	23	23	23
DAYS 4 TO 7	MEAN	1	6	7	8
	S.D.	12.5	9.1	6.7	7.5
	N	21	23	23	23
DAYS 7 TO 14	MEAN	22	15	18	19
	S.D.	22.5	6.6	8.0	8.9
	N	21	23	23	23
DAYS 14 TO 21	MEAN	-9	-11	-3	-4
	S.D.	14.2	13.2	7.5	9.9
	N	21	23	23	22
DAYS 21 TO 28	MEAN	-23	-22	-34*	-32
	S.D.	15.8	17.3	11.3	10.5
	N	21	23	23	22
DAYS 1 TO 28	MEAN	-1	8	4	8
	S.D.	12.5	15.8	14.8	17.1
	N	21	23	23	22

Statistical key: \* = p&lt;0.05

TABLE 11 P0 GENERATION

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

MALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)			
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAY 0	MEAN	124	126	128**	130**
	S.D.	4.6	5.0	5.6	6.1
	N	26	26	25	26
DAY 7	MEAN	100	99	100	98
	S.D.	4.1	4.8	3.4	4.0
	N	26	26	26	26
DAY 14	MEAN	89	86*	87	85**
	S.D.	4.2	3.4	3.2	3.6
	N	25	26	26	26
DAY 21	MEAN	79	77	75	76
	S.D.	5.3	3.1	8.6	7.3
	N	26	26	26	26
DAY 28	MEAN	70	71	69	70
	S.D.	4.5	3.2	3.7	4.7
	N	26	26	25	25
DAY 35	MEAN	67	66	67	66
	S.D.	2.9	2.1	1.9	3.2
	N	26	26	25	26
DAY 42	MEAN	63	63	64	63
	S.D.	8.0	2.4	2.6	3.4
	N	26	26	25	26
DAY 49	MEAN	63	60	62	61
	S.D.	5.5	2.6	2.3	3.7
	N	25	26	24	26
DAY 56	MEAN	59	55**	57	57
	S.D.	4.1	5.1	2.7	3.0
	N	26	26	25	26

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

TABLE 11 P0 GENERATION

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

MALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)			
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAY 63	MEAN	55	55	54	54
	S.D.	3.2	2.4	3.2	5.8
	N	26	26	25	26
DAY 69	MEAN	54	53	54	52
	S.D.	5.0	2.2	2.2	7.8
	N	26	26	25	26
DAY 91	MEAN	50	47**	49	49
	S.D.	2.4	2.7	1.9	2.6
	N	26	26	25	26
DAY 98	MEAN	49	47*	48	48
	S.D.	2.5	2.9	2.1	2.7
	N	26	26	25	26
DAY 105	MEAN	48	47	49	49
	S.D.	3.0	3.2	3.2	2.5
	N	26	26	25	26
DAY 112	MEAN	47	46	48	47
	S.D.	3.0	2.6	2.2	2.7
	N	26	26	24	26

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

TABLE 11 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

FEMALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)			
DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAY 0	MEAN	127	135**	131	131
	S.D.	9.8	7.2	6.2	7.6
	N	26	26	25	26
DAY 7	MEAN	104	103	105	101
	S.D.	8.1	7.1	6.3	6.6
	N	26	26	22	25
DAY 14	MEAN	96	92	94	91*
	S.D.	6.5	10.1	5.6	6.6
	N	26	26	25	25
DAY 21	MEAN	87	87	86	83*
	S.D.	4.9	8.1	4.4	4.6
	N	26	26	26	26
DAY 28	MEAN	84	83	83	81
	S.D.	5.6	5.5	4.0	7.6
	N	26	26	24	26
DAY 35	MEAN	80	78	80	77
	S.D.	5.1	4.2	4.2	3.3
	N	25	24	26	26
DAY 42	MEAN	76	76	80	75
	S.D.	9.9	5.5	3.9	4.9
	N	26	26	26	25
DAY 49	MEAN	77	74	76	74
	S.D.	7.4	5.4	4.6	3.6
	N	26	25	26	26
DAY 56	MEAN	70	71	72	70
	S.D.	3.8	4.8	5.3	4.9
	N	26	25	26	26

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

TABLE 11 P0 GENERATION

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

FEMALES		MEAN FEED CONSUMPTION (GRAMS/KG/DAY)			
		I	II	III	IV
DOSE GROUP DOSE LEVEL (MG/M3)		0	2000	10000	20000
DAY 63	MEAN	66	67	68	70
	S.D.	4.2	4.6	6.4	9.9
	N	26	26	26	26
DAY 69	MEAN	65	64	66	65
	S.D.	4.1	5.6	4.4	4.0
	N	26	26	26	25
DAY 91	MEAN	57	64	54	59
	S.D.	0.0	6.6	0.4	1.7
	N	1	3	2	4
DAY 98	MEAN	54	53	54	56
	S.D.	0.0	0.4	4.6	3.0
	N	1	2	2	3
DAY 105	MEAN	54	56	54	55
	S.D.	4.4	2.6	3.2	2.7
	N	2	2	3	3
DAY 112	MEAN	110		130	
	S.D.	0.0		0.0	
	N	1		1	

No statistically significant differences

TABLE 12 P0 GENERATION

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

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

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAYS 0 TO 4	MEAN	72	72	74	72
	S.D.	5.3	8.2	5.3	5.8
	N	22	21	24	22
DAYS 4 TO 7	MEAN	75	73	76	73
	S.D.	4.3	7.0	6.2	5.9
	N	22	22	24	22
DAYS 7 TO 14	MEAN	71	71	71	70
	S.D.	3.9	4.4	3.5	5.5
	N	22	22	24	22
DAYS 14 TO 20	MEAN	64	61	61	62
	S.D.	3.4	3.8	4.3	3.9
	N	22	22	23	22
DAYS 0 TO 20	MEAN	70	69	71	69
	S.D.	3.3	4.9	3.7	4.1
	N	22	22	24	22

No statistically significant differences



TABLE 13 P0 GENERATION

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

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

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
DAYS 1 TO 4	MEAN	90	93	104*	99
	S.D.	19.6	15.0	15.6	16.8
	N	21	23	23	22
DAYS 4 TO 7	MEAN	108	111	116	113
	S.D.	14.1	13.4	12.8	11.2
	N	19	23	23	21
DAYS 7 TO 14	MEAN	135	136	143	140
	S.D.	13.7	15.2	9.4	10.1
	N	21	23	23	22
DAYS 14 TO 21	MEAN	178	183	190	187
	S.D.	17.3	21.2	17.3	21.6
	N	21	22	23	21
DAYS 21 TO 28	MEAN	324	341	344	337
	S.D.	60.4	58.2	35.3	41.7
	N	17	17	22	18
DAYS 1 TO 28	MEAN	161	161	178*	168
	S.D.	20.9	25.8	16.3	22.8
	N	21	23	23	22

Statistical key: \* = p&lt;0.05

TABLE 14 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF ESTROUS STAGES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
PRE-COHABITATION PERIOD (21 days evaluated)					
FEMALES EXAMINED	N	26	26	26	26
CYCLE LENGTH (days)	MEAN	4.2	4.2	4.2	4.0
	S.D.	0.42	0.37	0.32	0.73
	N	26	26	26	25
NUMBER of ESTROUS CYCLES	MEAN	4.2	4.0	4.1	4.0
	S.D.	0.54	0.66	0.59	0.17
	N	26	26	26	25

-----  
 No statistically significant differences

TABLE 15 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

SUMMARY OF COHABITATION DATA

---

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Females paired with males	N	26	26	26	26
Males placed with females	N	26	26	25	26
Total number mated	N	25	24	23	23
male mating index	%	96.2	92.3	92.0	88.5
with females pregnant	N	22	24 <sup>a</sup>	23	23
male fertility index	%	84.6	92.3	92.0	88.5
Females with defined day 0 of Gestation	N	25	23	24	22
No. of days until Mating	MEAN	2.4	3.0	3.2	3.1
	S.D.	1.12	1.48	1.28	1.70
Day 1 to 4	N	24	22	21	18
	%	96.0	95.7	87.5	81.8
Day 5 to 8	N	1	1	3	4
	%	4.0	4.3	12.5	18.2
Day 9 to 14	N	0	0	0	0
	%	0.0	0.0	0.0	0.0

---

No statistically significant differences

<sup>a</sup>Includes Female No. 2536 which had positive signs of mating and was sacrificed for humane reasons on Gestation Day 1 due to a snout injury. This animal was presumed pregnant for calculation purposes although this cannot be confirmed.

TABLE 16 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Females on Study	N	26	26	26	25
Females Mated	N	25	24	24	22
Mating Index	%	96.2	92.3	92.3	88.0
Females Pregnant	N	22	24 <sup>a</sup>	24	22
Female Fertility Index	%	88.0	100.0	100.0	100.0
Females with Liveborn	N	22	23	24	22
Gestation Index	%	100.0	95.8	100.0	100.0
Females Completing Delivery	N	22	23	24	22
	%	100.0	95.8	100.0	100.0
with Stillborn Pups	N	4	2	2	5
	%	18.2	8.7	8.3	22.7
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	1	0
	%	4.5	0.0	4.2	0.0
day 21	N	1	0	1	0
	%	4.5	0.0	4.2	0.0
Duration of Gestation	MEAN	21.9	22.0	21.9	22.0
	S.D.	0.29	0.31	0.41	0.45
	N	22	22	24	21

No statistically significant differences

<sup>a</sup>Includes Female No. 2536 which had positive signs of mating and was sacrificed for humane reasons on Gestation Day 1 due to a snout injury. This animal was presumed pregnant for calculation purposes although this cannot be confirmed.

TABLE 16 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Litters with Liveborn Pups	N	22	23	24	22
Pups Delivered (total)	N	266	301	314	287
	MEAN	12.1	13.1	13.1	13.0
	S.D.	2.81	2.70	2.95	2.08
Liveborn Live Birth Index	N	262	299	312	280
	%	98.5	99.3	99.4	97.6
Stillborn	N	4	2	2	7
	%	1.5	0.7	0.6	2.4
Culled day 4		46	71	78	62
Liveborn, not culled prior to day 21	N	216	228	234	218
Pups Dying, Missing, and/or Cannibalized day 0	N	0	2	0	2
	%	0.0	0.7	0.0	0.7
days 1-4	N	18	3**	4**	2**
	%	6.9	1.0	1.3	0.7
days 5-21	N	2	0	2	0
	%	0.8	0.0	0.6	0.0
days 0-4	N	18	5**	4**	4**
	%	6.9	1.7	1.3	1.4
days 0-21	N	20	5**	6**	4**
	%	7.6	1.7	1.9	1.4
Pups Surviving 4 days Viability Index	N	244	294**	308**	276**
	%	93.1	98.3	98.7	98.6
Pups Surviving 21 days Lactation Index	N	196	223	228	214
	%	99.0	100.0	99.1	100.0

Statistical key: \*\* = p<0.01

TABLE 16 P0 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Implantation Sites per Litter	N	280	325	342	319
	MEAN	12.7	14.1	14.3	14.5
	S.D.	3.21	2.60	2.86	1.71
Live Pups/Litter day 1	MEAN	11.8	12.8	13.4	12.6
	S.D.	2.76	2.77	1.64	2.34
	N	22	23	23	22
day 4 preculling	MEAN	11.1	12.8	13.4*	12.5
	S.D.	3.70	2.80	1.64	2.44
	N	22	23	23	22
day 4 postculling	MEAN	9.0	9.7	10.0	9.7
	S.D.	2.43	1.26	0.00	0.77
	N	22	23	23	22
day 7	MEAN	9.0	9.7	10.0	9.7
	S.D.	2.43	1.26	0.00	0.77
	N	22	23	23	22
day 14	MEAN	8.9	9.7	10.0	9.7
	S.D.	2.45	1.26	0.00	0.77
	N	22	23	23	22
day 21	MEAN	8.9	9.7	9.9	9.7
	S.D.	2.45	1.26	0.29	0.77
	N	22	23	23	22
day 28	MEAN	8.9	9.7	9.9	9.7
	S.D.	2.45	1.26	0.29	0.77
	N	22	23	23	22
Sex Ratio - Male Pups:Total Pups day 0	N	133	152	161	150
	%	50.8	50.8	51.6	53.8
day 21	N	99	112	120	111
	%	50.5	50.2	52.6	51.9

Statistical key: \* = p<0.05

TABLE 16 P0 GENERATION

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

## SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
Pup Weight/Litter (grams)					
day 1	MEAN	7.4	7.2	7.0	7.3
	S.D.	0.81	0.46	0.63	0.49
	N	22	23	23	22
day 4	MEAN	11.4	10.4*	10.2**	10.5*
	S.D.	1.38	1.18	1.16	0.95
	N	21	23	23	22
day 7	MEAN	14.6	14.6	14.3	14.3
	S.D.	2.25	1.36	1.51	1.09
	N	21	23	23	22
day 14	MEAN	25.2	25.1	24.5	24.3
	S.D.	3.39	2.01	2.37	1.82
	N	21	23	23	22
day 21	MEAN	41.9	42.3	40.9	41.2
	S.D.	5.89	4.20	5.19	3.99
	N	21	23	23	22
day 28	MEAN	78.6	78.8	76.2	76.9
	S.D.	7.92	6.60	8.22	5.85
	N	21	23	23	22

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

TABLE 17 F1 GENERATION

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

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

DOSE GROUP DOSE LEVEL (MG/M3)	I 0	II 2000	III 10000	IV 20000
DAY 1 to 28				
Normal				
-----				
WITHIN NORMAL LIMITS	1029/21	1184/23	1217/23	1166/23
Gen. Appearance				
-----				
SWOLLEN PAW(S)	1/ 1	0/ 0	0/ 0	0/ 0
DOMED HEAD	0/ 0	0/ 0	7/ 1	0/ 0
SWOLLEN SNOUT	0/ 0	1/ 1	0/ 0	0/ 0
Dermal-General				
-----				
ULCERATION - CERVICAL	0/ 0	1/ 1	0/ 0	0/ 0
SCABS	1/ 1	1/ 1	0/ 0	0/ 0
Ocular				
-----				
OPACITY - UNILATERAL	0/ 0	2/ 1	0/ 0	0/ 0



TABLE 18 F1 GENERATION

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

## SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

DOSE GROUP			I	II	III	IV
DOSE LEVEL (MG/M3)			0	2000	10000	20000
day 1	males	MEAN	7.6	7.4	7.2	7.4
		S.D.	0.81	0.45	0.66	0.55
		N	22	23	23	22
1	females	MEAN	7.1	7.0	6.8	7.1
		S.D.	0.87	0.56	0.62	0.50
		N	22	23	23	22
1	males+females	MEAN	7.4	7.2	7.0	7.3
		S.D.	0.81	0.46	0.63	0.49
		N	22	23	23	22
day 4	males preculling	MEAN	11.7	10.6**	10.5**	10.7*
		S.D.	1.37	1.18	1.18	1.06
		N	21	23	23	22
4	females preculling	MEAN	11.0	10.3	9.9*	10.3
		S.D.	1.46	1.39	1.13	0.92
		N	21	23	23	22
4	males+females preculling	MEAN	11.4	10.4*	10.2**	10.5*
		S.D.	1.38	1.18	1.16	0.95
		N	21	23	23	22
day 4	males postculling	MEAN	11.7	10.6**	10.6**	10.7*
		S.D.	1.37	1.18	1.17	1.12
		N	21	23	23	22
4	females postculling	MEAN	11.0	10.3	9.9*	10.3
		S.D.	1.48	1.39	1.12	0.91
		N	21	23	23	22
4	males+females postculling	MEAN	11.4	10.4*	10.3**	10.5*
		S.D.	1.41	1.19	1.15	0.99
		N	21	23	23	22

Statistical key: \* = p&lt;0.05 \*\* = p&lt;0.01

TABLE 18 F1 GENERATION

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

## SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 7 males	MEAN	15.0	14.8	14.6	14.7
	S.D.	2.25	1.43	1.54	1.29
	N	21	23	23	22
7 females	MEAN	14.2	14.3	13.9	14.0
	S.D.	2.30	1.60	1.47	0.97
	N	21	23	23	22
7 males+females	MEAN	14.6	14.6	14.3	14.3
	S.D.	2.25	1.36	1.51	1.09
	N	21	23	23	22
day 14 males	MEAN	25.6	25.5	25.0	24.8
	S.D.	3.39	2.23	2.43	2.03
	N	21	23	23	22
14 females	MEAN	24.8	24.7	23.9	23.9
	S.D.	3.52	2.21	2.35	1.70
	N	21	23	23	22
14 males+females	MEAN	25.2	25.1	24.5	24.3
	S.D.	3.39	2.01	2.37	1.82
	N	21	23	23	22
day 21 males	MEAN	42.7	42.8	41.6	42.1
	S.D.	5.99	4.73	5.54	4.66
	N	21	23	23	22
21 females	MEAN	41.2	41.7	40.1	40.5
	S.D.	6.18	4.30	4.85	3.49
	N	21	23	23	22
21 males+females	MEAN	41.9	42.3	40.9	41.2
	S.D.	5.89	4.20	5.19	3.99
	N	21	23	23	22

No statistically significant differences

TABLE 18 F1 GENERATION

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

## SUMMARY OF MEAN PUP BODY WEIGHTS (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 28 males	MEAN	81.8	81.2	79.1	80.0
	S.D.	8.95	7.83	8.91	7.19
	N	21	23	23	22
28 females	MEAN	75.5	76.2	73.0	73.8
	S.D.	7.72	6.37	7.55	4.96
	N	21	23	23	22
28 males+females	MEAN	78.6	78.8	76.2	76.9
	S.D.	7.92	6.60	8.22	5.85
	N	21	23	23	22

No statistically significant differences

TABLE 18 F1 GENERATION

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

## SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 1- 4 males	MEAN	4.0	3.2**	3.3*	3.3*
	S.D.	0.90	0.90	0.67	0.83
	N	21	23	23	22
females	MEAN	3.8	3.2	3.1*	3.2*
	S.D.	0.90	0.97	0.66	0.56
	N	21	23	23	22
males+females	MEAN	3.9	3.2*	3.2*	3.2*
	S.D.	0.88	0.87	0.66	0.62
	N	21	23	23	22
day 4- 7 males	MEAN	3.3	4.2*	4.1*	3.9
	S.D.	1.81	0.73	0.69	0.67
	N	21	23	23	22
females	MEAN	3.1	4.0*	4.0*	3.8
	S.D.	1.78	0.67	0.62	0.61
	N	21	23	23	22
males+females	MEAN	3.2	4.1**	4.0*	3.9
	S.D.	1.80	0.66	0.65	0.63
	N	21	23	23	22
day 4-21 males	MEAN	31.0	32.2	31.1	31.4
	S.D.	5.44	4.21	4.71	4.03
	N	21	23	23	22
females	MEAN	30.2	31.4	30.1	30.2
	S.D.	5.57	3.54	4.02	3.12
	N	21	23	23	22
males+females	MEAN	30.5	31.9	30.7	30.8
	S.D.	5.34	3.67	4.35	3.52
	N	21	23	23	22

Statistical key: \* = p&lt;0.05 \*\* = p&lt;0.01

TABLE 18 F1 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 4-28 males	MEAN	70.1	70.6	68.5	69.2
	S.D.	8.29	7.30	8.13	6.51
	N	21	23	23	22
females	MEAN	64.5	65.9	63.1	63.6
	S.D.	6.99	5.70	6.82	4.56
	N	21	23	23	22
males+females	MEAN	67.2	68.4	66.0	66.4
	S.D.	7.23	6.08	7.45	5.35
	N	21	23	23	22
day 7-14 males	MEAN	10.6	10.6	10.4	10.1
	S.D.	1.46	1.29	1.29	1.22
	N	21	23	23	22
females	MEAN	10.7	10.4	10.0	9.9
	S.D.	1.70	1.13	1.34	1.17
	N	21	23	23	22
males+females	MEAN	10.6	10.5	10.2	10.0
	S.D.	1.49	1.15	1.28	1.19
	N	21	23	23	22
day 7-28 males	MEAN	66.8	66.4	64.5	65.3
	S.D.	7.02	6.79	7.68	6.19
	N	21	23	23	22
females	MEAN	61.4	61.9	59.1	59.8
	S.D.	5.98	5.35	6.40	4.24
	N	21	23	23	22
males+females	MEAN	64.0	64.3	62.0	62.6
	S.D.	6.01	5.66	7.01	5.03
	N	21	23	23	22

No statistically significant differences

TABLE 18 F1 GENERATION

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

## SUMMARY OF PUP BODY WEIGHT GAIN -- GRAMS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
day 14-21 males	MEAN	17.1	17.3	16.6	17.3
	S.D.	3.12	2.78	3.32	2.99
	N	21	23	23	22
females	MEAN	16.4	17.0	16.1	16.6
	S.D.	3.18	2.46	2.90	2.17
	N	21	23	23	22
males+females	MEAN	16.7	17.2	16.4	16.9
	S.D.	3.02	2.50	3.10	2.53
	N	21	23	23	22
day 14-28 males	MEAN	56.3	55.7	54.1	55.2
	S.D.	5.79	5.86	6.68	5.46
	N	21	23	23	22
females	MEAN	50.7	51.5	49.1	49.9
	S.D.	4.52	4.65	5.60	3.55
	N	21	23	23	22
males+females	MEAN	53.4	53.7	51.8	52.6
	S.D.	4.76	4.93	6.12	4.31
	N	21	23	23	22
day 21-28 males	MEAN	39.2	38.4	37.5	37.9
	S.D.	3.71	3.60	3.86	2.94
	N	21	23	23	22
females	MEAN	34.3	34.5	32.9	33.3
	S.D.	2.25	2.82	3.21	2.17
	N	21	23	23	22
males+females	MEAN	36.7	36.6	35.3	35.7
	S.D.	2.74	3.00	3.50	2.34
	N	21	23	23	22

No statistically significant differences

TABLE 19 P0 GENERATION

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

## SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
MALES	N	26	26	26	26
GROSS EXAM	N	0	0	1	0
-----					
FRACTURE(S)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
THYMUS	N	1	3	2	1
-----					
DISCOLORED FOCUS/FOCI	N	1	3	2	1
	%	3.8	11.5	7.7	3.8
LUNGS	N	1	3	5	6
-----					
DISCOLORED FOCI	N	1	3	5	6
	%	3.8	11.5	19.2	23.1
SPLEEN	N	0	0	1	0
-----					
ENLARGED	N	0	0	1	0
	%	0.0	0.0	3.8	0.0

No statistically significant differences

TABLE 19 P0 GENERATION

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

## SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
MALES	N	26	26	26	26
LIVER	N	2	0	2	0
-----					
ENLARGED	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
DISCOLORED FOCI	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
DISCOLORED AREA(S)	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
ADHESION	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
NODULE(S)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
KIDNEY	N	3	3	4	3
-----					
DILATED RENAL PELVIS	N	3	3	3	2
	%	11.5	11.5	11.5	7.7
DISCOLORED FOCUS/FOCI	N	0	0	0	1
	%	0.0	0.0	0.0	3.8
CYSTIC KIDNEY	N	0	0	1	0
	%	0.0	0.0	3.8	0.0

No statistically significant differences



TABLE 19 P0 GENERATION

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

## SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
MALES	N	26	26	26	26
GONADS	N	0	1	0	1
DISCOLORED FOCI ON PROSTATE	N	0	1	0	1
	%	0.0	3.8	0.0	3.8

No statistically significant differences

TABLE 19 P0 GENERATION

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

## SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
FEMALES	N	26	26	26	26
GROSS EXAM	N	0	1	0	1
-----					
FRACTURE(S)	N	0	1	0	0
	%	0.0	3.8	0.0	0.0
HEMORRHAGE	N	0	0	0	1
	%	0.0	0.0	0.0	3.8
EYES	N	0	1	0	0
----					
OPACITY	N	0	1	0	0
	%	0.0	3.8	0.0	0.0
THYMUS	N	0	0	1	0
-----					
DISCOLORED FOCUS/FOCI	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
THORACIC CAVITY	N	1	0	0	0
-----					
ENLARGED LYMPH NODE(S)	N	1	0	0	0
	%	3.8	0.0	0.0	0.0

No statistically significant differences

TABLE 19 P0 GENERATION

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

## SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
FEMALES	N	26	26	26	26
LUNGS	N	4	7	11	10
DISCOLORED FOCI	N	4	7	11	10
	%	15.4	26.9	42.3	38.5
SPLEEN	N	0	0	0	1
ADHESION	N	0	0	0	1
	%	0.0	0.0	0.0	3.8
ADRENALS	N	1	0	0	0
DISCOLORED ADRENALS	N	1	0	0	0
	%	3.8	0.0	0.0	0.0

No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
GROSS EXAM					
-----					
Litter Incidence	N	4	1	3	0
Pup Incidence	N	15	1	3	0
CANNIBALIZED					
Pup Incidence	N	1	1	1	0
	%	0.5	0.5	0.5	0.0
Litter Incidence	N	1	1	1	0
	%	4.5	4.3	4.2	0.0
SEX UNDETERMINED					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.5	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.2	0.0
AUTOLYSIS					
Pup Incidence	N	14	0	3	0
	%	7.4	0.0	1.4	0.0
Litter Incidence	N	4	0	3	0
	%	18.2	0.0	12.5	0.0
EYES					
-----					
Litter Incidence	N	0	0	2	0
Pup Incidence	N	0	0	2	0

No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
OPACITY					
Pup Incidence	N	0	0	2	0
	%	0.0	0.0	0.9	0.0
Litter Incidence	N	0	0	2	0
	%	0.0	0.0	8.3	0.0
THYMUS					
-----					
Litter Incidence	N	1	0	0	1
Pup Incidence	N	1	0	0	1
DISCOLORED FOCI					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5
SMALL					
Pup Incidence	N	1	0	0	0
	%	0.5	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.5	0.0	0.0	0.0
LUNGS					
-----					
Litter Incidence	N	3	4	2	5
Pup Incidence	N	3	4	2	8

No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
LUNG FLOTATION TEST-STILLBORN					
Pup Incidence	N	3	2	1	7
	%	1.6	0.9	0.5	3.5
Litter Incidence	N	3	2	1	5
	%	13.6	8.7	4.2	22.7
LUNG FLOTATION TEST - FOUND DEAD					
Pup Incidence	N	0	2	1	1
	%	0.0	0.9	0.5	0.5
Litter Incidence	N	0	2	1	1
	%	0.0	8.7	4.2	4.5
STOMACH					
-----					
Litter Incidence	N	3	4	2	5
Pup Incidence	N	6	4	2	8
NO MILK IN STOMACH					
Pup Incidence	N	5	3	2	8
	%	2.6	1.4	0.9	4.0
Litter Incidence	N	3	3	2	5
	%	13.6	13.0	8.3	22.7
SMALL					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5

No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
MILK IN STOMACH					
Pup Incidence	N	1	1	0	0
	%	0.5	0.5	0.0	0.0
Litter Incidence	N	1	1	0	0
	%	4.5	4.3	0.0	0.0
KIDNEY					
-----					
Litter Incidence	N	4	3	3	3
Pup Incidence	N	4	4	4	4
M FUSED KIDNEY					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5
ENLARGED KIDNEY(S)					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.5	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.2	0.0
CYST(S)					
Pup Incidence	N	1	1	3	0
	%	0.5	0.5	1.4	0.0
Litter Incidence	N	1	1	2	0
	%	4.5	4.3	8.3	0.0

No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
DILATED RENAL PELVIS					
Pup Incidence	N	3	3	1	3
	%	1.6	1.4	0.5	1.5
Litter Incidence	N	3	2	1	2
	%	13.6	8.7	4.2	9.1
DISCOLORED					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.5	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.2	0.0
INTESTINES					
-----					
Litter Incidence	N	0	0	0	1
Pup Incidence	N	0	0	0	1
A UNDERDEVELOPMENT OF INTESTINE					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5
ANAL ATRESIA					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5

No statistically significant differences



TABLE 20 F1 GENERATION  
 GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
 INHALATION REPRODUCTION TOXICITY STUDY IN RATS

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
GONADS					
-----					
Litter Incidence	N	5	5	4	6
Pup Incidence	N	8	8	4	6
UNDESCENDED TESTE(S)					
Pup Incidence	N	8	8	4	6
	%	4.2	3.8	1.8	3.0
Litter Incidence	N	5	5	4	6
	%	22.7	21.7	16.7	27.3
ABDOMINAL CAVITY					
-----					
Litter Incidence	N	1	0	0	1
Pup Incidence	N	1	0	0	1
GASTROSCHISIS					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.5
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.5
DIAPHRAGMATIC HERNIA					
Pup Incidence	N	1	0	0	0
	%	0.5	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.5	0.0	0.0	0.0

-----  
 No statistically significant differences

TABLE 20 F1 GENERATION

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

## SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
Litters Evaluated	N	22	23	24	22
Pups Evaluated	N	190	211	221	201
Live	N	186	209	219	194
Stillborn	N	4	2	2	7
<b>HEAD</b>					
----					
Litter Incidence	N	0	0	1	0
Pup Incidence	N	0	0	1	0
<b>V DOMED HEAD</b>					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.5	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.2	0.0

No statistically significant differences

	Mean Parental Organ Weights Preface	Table 21
--	--	----------

**Table of Contents**

P <sub>0</sub> Generation Absolute Organ Weights .....	100
P <sub>0</sub> Generation Organ to Body Weight Ratios .....	104
P <sub>0</sub> Generation Organ to Brain Weight Ratios .....	108

**Key to Abbreviations:**

g	=	Grams
Sem.Ves & Co.GL.	=	Seminal Vesicles and Coagulating Glands

TABLE 21 P0 GENERATION

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

## SUMMARY OF ABSOLUTE ORGAN WEIGHTS

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	575	576	575	568
	S.D.	58.0	59.5	53.0	64.9
	N	26	26	24	26
TESTIS - RIGHT g	MEAN	1.7060	1.6767	1.7498	1.7651
	S.D.	.14280	.09950	.13300	.12232
	N	26	26	24	26
TESTIS - LEFT g	MEAN	1.7065	1.6774	1.7594	1.7527
	S.D.	.15133	.08929	.14124	.12487
	N	26	26	24	26
TESTES g	MEAN	3.4053	3.3432	3.4960	3.5072
	S.D.	.29263	.17706	.26960	.24313
	N	26	26	24	26
PROSTATE g	MEAN	1.2088	1.1442	1.2587	1.1935
	S.D.	.25577	.19400	.25284	.25560
	N	26	26	24	26
SEM.VES & CO.GL. g	MEAN	1.8887	1.8686	1.9957	2.1836**
	S.D.	.34371	.36861	.32072	.33852
	N	26	26	24	26
EPIDIDYMIS RIGHT g	MEAN	0.7065	0.7342	0.7542*	0.7485*
	S.D.	.06035	.05919	.05040	.06290
	N	26	25	24	26
EPIDIDYMIS LEFT g	MEAN	0.7025	0.7200	0.7507*	0.7339
	S.D.	.06496	.05654	.05279	.06036
	N	26	26	24	26

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

TABLE 21 P0 GENERATION

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

## SUMMARY OF ABSOLUTE ORGAN WEIGHTS

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
EPIDIDYMIDES g	MEAN	1.3979	1.4429	1.4969**	1.4742*
	S.D.	.11588	.09958	.09790	.10475
	N	26	26	24	26
ADRENALS g	MEAN	0.0632	0.0646	0.0680	0.0607
	S.D.	.00800	.01165	.01189	.01061
	N	26	26	24	26
BRAIN g	MEAN	2.1742	2.1648	2.1704	2.1301
	S.D.	.10816	.06601	.08024	.08252
	N	26	26	24	26
KIDNEYS g	MEAN	4.1123	4.0631	4.6034**	4.7256**
	S.D.	.51983	.38374	.47749	.53666
	N	26	26	24	26
LIVER g	MEAN	19.337	19.551	20.315	21.225*
	S.D.	2.3574	2.3028	2.6331	2.5354
	N	26	26	24	26
LUNGS g	MEAN	1.8452	1.8113	1.8679	1.8236
	S.D.	.26034	.18217	.21915	.15627
	N	26	26	24	26
PITUITARY g	MEAN	0.0120	0.0114	0.0120	0.0118
	S.D.	.00147	.00207	.00133	.00207
	N	26	26	24	26
SPLEEN g	MEAN	0.8145	0.7693	0.8396	0.7907
	S.D.	.13658	.10398	.12317	.10640
	N	26	26	24	26

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

TABLE 21 P0 GENERATION

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

## SUMMARY OF ABSOLUTE ORGAN WEIGHTS

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	308	312	310	311
	S.D.	24.1	23.3	22.3	29.9
	N	21	23	23	22
ADRENALS g	MEAN	0.0734	0.0751	0.0728	0.0767
	S.D.	.00770	.01102	.01314	.01069
	N	21	23	23	22
BRAIN g	MEAN	1.9398	1.9219	1.9267	1.9395
	S.D.	.07778	.08865	.06155	.07416
	N	21	23	23	22
KIDNEYS g	MEAN	2.5653	2.5942	2.6382	2.6944
	S.D.	.18529	.18497	.19552	.25326
	N	21	23	23	22
LIVER g	MEAN	13.920	13.849	14.350	14.506
	S.D.	1.6664	1.7315	1.5820	2.1402
	N	21	23	23	22
LUNGS g	MEAN	1.4551	1.4585	1.4780	1.4882
	S.D.	.10850	.12881	.11823	.16740
	N	21	23	23	22
PITUITARY g	MEAN	0.0143	0.0159	0.0145	0.0156
	S.D.	.00271	.00341	.00207	.00345
	N	21	23	23	22
SPLEEN g	MEAN	0.5869	0.5995	0.6025	0.6148
	S.D.	.07949	.06532	.07758	.09543
	N	21	23	23	22

No statistically significant differences

TABLE 21 P0 GENERATION

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

## SUMMARY OF ABSOLUTE ORGAN WEIGHTS

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
OVARY RIGHT g	MEAN	0.0577	0.0550	0.0565	0.0585
	S.D.	.01177	.01297	.00880	.01266
	N	21	23	23	22
OVARY LEFT g	MEAN	0.0529	0.0554	0.0532	0.0583
	S.D.	.01332	.01074	.00974	.01005
	N	21	23	23	22
OVARIES g	MEAN	0.1100	0.1100	0.1097	0.1161
	S.D.	.02113	.01881	.01548	.01902
	N	21	23	23	22
UTERUS/OVIDUCTS g	MEAN	0.7000	0.7036	0.6054	0.6729
	S.D.	.19015	.19208	.14815	.19628
	N	21	23	23	22

No statistically significant differences

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	575	576	575	568
	S.D.	58.0	59.5	53.0	64.9
	N	26	26	24	26
TESTIS - RIGHT Ratio	MEAN	0.0030	0.0029	0.0031	0.0031
	S.D.	.00033	.00038	.00033	.00035
	N	26	26	24	26
TESTIS - LEFT Ratio	MEAN	0.0030	0.0029	0.0031	0.0031
	S.D.	.00033	.00037	.00035	.00034
	N	26	26	24	26
TESTES Ratio	MEAN	0.0060	0.0059	0.0061	0.0062
	S.D.	.00066	.00073	.00068	.00069
	N	26	26	24	26
PROSTATE Ratio	MEAN	0.0021	0.0020	0.0022	0.0021
	S.D.	.00046	.00041	.00044	.00052
	N	26	26	24	26
SEM.VES & CO.GL. Ratio	MEAN	0.0033	0.0033	0.0035	0.0039**
	S.D.	.00061	.00065	.00064	.00076
	N	26	26	24	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.0012	0.0013	0.0013	0.0013
	S.D.	.00015	.00017	.00014	.00015
	N	26	25	24	26
EPIDIDYMIS LEFT Ratio	MEAN	0.0012	0.0013	0.0013	0.0013
	S.D.	.00014	.00014	.00016	.00014
	N	26	26	24	26

Statistical key: \*\* = p&lt;0.01



TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
EPIDIDYMIDES Ratio	MEAN	0.0024	0.0025	0.0026	0.0026
	S.D.	.00028	.00029	.00029	.00028
	N	26	26	24	26
ADRENALS Ratio	MEAN	0.0001	0.0001	0.0001	0.0001
	S.D.	.00002	.00002	.00002	.00002
	N	26	26	24	26
BRAIN Ratio	MEAN	0.0038	0.0038	0.0038	0.0038
	S.D.	.00034	.00039	.00032	.00035
	N	26	26	24	26
KIDNEYS Ratio	MEAN	0.0071	0.0071	0.0080**	0.0084**
	S.D.	.00048	.00053	.00048	.00089
	N	26	26	24	26
LIVER Ratio	MEAN	0.0336	0.0339	0.0352**	0.0374**
	S.D.	.00159	.00147	.00255	.00188
	N	26	26	24	26
LUNGS Ratio	MEAN	0.0032	0.0032	0.0033	0.0032
	S.D.	.00039	.00026	.00031	.00032
	N	26	26	24	26
PITUITARY Ratio	MEAN	0.0000	0.0000	0.0000	0.0000
	S.D.	.00000	.00000	.00000	.00000
	N	26	26	24	26
SPLEEN Ratio	MEAN	0.0014	0.0013	0.0015	0.0014
	S.D.	.00019	.00023	.00018	.00016
	N	26	26	24	26

Statistical key: \*\* = p&lt;0.01

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	308	312	310	311
	S.D.	24.1	23.3	22.3	29.9
	N	21	23	23	22
ADRENALS Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00002	.00004	.00005	.00003
	N	21	23	23	22
BRAIN Ratio	MEAN	0.0063	0.0062	0.0062	0.0063
	S.D.	.00053	.00045	.00040	.00050
	N	21	23	23	22
KIDNEYS Ratio	MEAN	0.0083	0.0083	0.0085	0.0087
	S.D.	.00044	.00050	.00055	.00050
	N	21	23	23	22
LIVER Ratio	MEAN	0.0451	0.0443	0.0463	0.0465
	S.D.	.00281	.00410	.00319	.00346
	N	21	23	23	22
LUNGS Ratio	MEAN	0.0047	0.0047	0.0048	0.0048
	S.D.	.00033	.00042	.00028	.00034
	N	21	23	23	22
PITUITARY Ratio	MEAN	0.0000	0.0001	0.0000	0.0000
	S.D.	.00001	.00001	.00001	.00001
	N	21	23	23	22
SPLEEN Ratio	MEAN	0.0019	0.0019	0.0019	0.0020
	S.D.	.00024	.00017	.00021	.00027
	N	21	23	23	22

No statistically significant differences

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BODY WEIGHT RATIO

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
OVARY RIGHT Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00004	.00004	.00003	.00004
	N	21	23	23	22
OVARY LEFT Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00004	.00004	.00003	.00003
	N	21	23	23	22
OVARIES Ratio	MEAN	0.0004	0.0004	0.0004	0.0004
	S.D.	.00007	.00006	.00005	.00006
	N	21	23	23	22
UTERUS/OVIDUCTS Ratio	MEAN	0.0023	0.0023	0.0020	0.0022
	S.D.	.00062	.00063	.00054	.00058
	N	21	23	23	22

No statistically significant differences

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
TESTIS - RIGHT Ratio	MEAN	0.7850	0.7751	0.8068	0.8298*
	S.D.	.05835	.04972	.06127	.06579
	N	26	26	24	26
TESTIS - LEFT Ratio	MEAN	0.7854	0.7752	0.8112	0.8238
	S.D.	.06432	.04074	.06525	.06481
	N	26	26	24	26
TESTES Ratio	MEAN	1.5670	1.5453	1.6120	1.6487*
	S.D.	.12206	.08643	.12535	.12908
	N	26	26	24	26
PROSTATE Ratio	MEAN	0.5568	0.5291	0.5802	0.5618
	S.D.	.11538	.09237	.11568	.12730
	N	26	26	24	26
SEM.VES & CO.GL. Ratio	MEAN	0.8710	0.8640	0.9214	1.0247**
	S.D.	.16401	.17203	.15383	.14796
	N	26	26	24	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.3252	0.3397	0.3478*	0.3518**
	S.D.	.02661	.02877	.02472	.03174
	N	26	25	24	26
EPIDIDYMIS LEFT Ratio	MEAN	0.3231	0.3329	0.3462*	0.3449*
	S.D.	.02522	.02785	.02609	.03031
	N	26	26	24	26
EPIDIDYMIDES Ratio	MEAN	0.6433	0.6671	0.6904**	0.6928**
	S.D.	.04846	.04972	.04879	.05363
	N	26	26	24	26

Statistical key: \* = p&lt;0.05 \*\* = p&lt;0.01

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

## MALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
ADRENALS Ratio	MEAN	0.0292	0.0298	0.0314	0.0285
	S.D.	.00428	.00540	.00544	.00471
	N	26	26	24	26
KIDNEYS Ratio	MEAN	1.8890	1.8772	2.1207**	2.2196**
	S.D.	.19685	.16948	.20311	.24610
	N	26	26	24	26
LIVER Ratio	MEAN	8.8903	9.0315	9.3552	9.9636**
	S.D.	.96476	1.0201	1.1247	1.1240
	N	26	26	24	26
LUNGS Ratio	MEAN	0.8482	0.8365	0.8599	0.8563
	S.D.	.10786	.07613	.08880	.06876
	N	26	26	24	26
PITUITARY Ratio	MEAN	0.0055	0.0053	0.0055	0.0055
	S.D.	.00062	.00097	.00056	.00092
	N	26	26	24	26
SPLEEN Ratio	MEAN	0.3752	0.3556	0.3871	0.3712
	S.D.	.06294	.04879	.05626	.04767
	N	26	26	24	26

Statistical key: \*\* = p&lt;0.01

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
ADRENALS Ratio	MEAN	0.0379	0.0391	0.0378	0.0395
	S.D.	.00462	.00560	.00665	.00523
	N	21	23	23	22
KIDNEYS Ratio	MEAN	1.3246	1.3515	1.3695	1.3890
	S.D.	.11119	.09915	.09656	.11608
	N	21	23	23	22
LIVER Ratio	MEAN	7.1818	7.2160	7.4444	7.4674
	S.D.	.84545	.90048	.75483	.95689
	N	21	23	23	22
LUNGS Ratio	MEAN	0.7505	0.7588	0.7669	0.7670
	S.D.	.05244	.05567	.05428	.07663
	N	21	23	23	22
PITUITARY Ratio	MEAN	0.0074	0.0083	0.0075	0.0080
	S.D.	.00147	.00176	.00102	.00159
	N	21	23	23	22
SPLEEN Ratio	MEAN	0.3033	0.3123	0.3128	0.3170
	S.D.	.04462	.03379	.03959	.04714
	N	21	23	23	22
OVARY RIGHT Ratio	MEAN	0.0298	0.0286	0.0293	0.0301
	S.D.	.00632	.00632	.00452	.00654
	N	21	23	23	22
OVARY LEFT Ratio	MEAN	0.0273	0.0289	0.0276	0.0301
	S.D.	.00710	.00566	.00486	.00503
	N	21	23	23	22

No statistically significant differences

TABLE 21 P0 GENERATION

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

## SUMMARY OF ORGAN WEIGHT TO BRAIN WEIGHT RATIO

## FEMALES

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
OVARIES Ratio	MEAN	0.0568	0.0572	0.0569	0.0599
	S.D.	.01149	.00918	.00766	.00970
	N	21	23	23	22
UTERUS/OVIDUCTS Ratio	MEAN	0.3629	0.3680	0.3140	0.3471
	S.D.	.10607	.10587	.07336	.10174
	N	21	23	23	22

No statistically significant differences

	Mean Pup Organ Weights Preface	Table 22
--	-----------------------------------	----------

**Table of Contents**

F <sub>1</sub> Generation Absolute Organ Weights .....	113
F <sub>1</sub> Generation % Organ to Body Weight Ratios.....	114
F <sub>1</sub> Generation % Organ to Brain Weight Ratios.....	115

**Corresponding exposure levels for each group were as follows:**

Group I	-	0 mg/m <sup>3</sup>
Group II	-	2,000 mg/m <sup>3</sup>
Group III	-	10,000 mg/m <sup>3</sup>
Group IV	-	20,000 mg/m <sup>3</sup>



TABLE 22 F1 GENERATION  
 GASOLINE DIPE 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 GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
BRAIN	MEAN	1.5557	1.5503	1.5423	1.5353
	S.D.	.05827	.05893	.07235	.04089
	N	21	23	23	22
of Male Pups	MEAN	1.5853	1.5684	1.5673	1.5608
	S.D.	.07752	.09306	.08504	.06183
	N	21	23	23	22
of Female Pups	MEAN	1.5262	1.5322	1.5172	1.5100
	S.D.	.05328	.05710	.07169	.03494
	N	21	23	23	22
SPLEEN	MEAN	0.3267	0.3108	0.3169	0.2993
	S.D.	.05122	.04533	.05512	.04018
	N	21	23	23	22
of Male Pups	MEAN	0.3464	0.3232	0.3418	0.3115
	S.D.	.06832	.06291	.07812	.05702
	N	21	23	23	22
of Female Pups	MEAN	0.3070	0.2984	0.2920	0.2871
	S.D.	.05564	.03633	.04735	.04544
	N	21	23	23	22
THYMUS	MEAN	0.3384	0.3726	0.3701	0.3511
	S.D.	.06328	.06684	.06418	.05561
	N	21	23	23	22
of Male Pups	MEAN	0.3378	0.3700	0.3671	0.3440
	S.D.	.08071	.07689	.09186	.08622
	N	21	23	23	22
of Female Pups	MEAN	0.3389	0.3753	0.3731	0.3582
	S.D.	.06696	.07188	.05396	.04127
	N	21	23	23	22

No statistically significant differences

TABLE 22 F1 GENERATION

GASOLINE DIPE 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

DOSE GROUP		I	II	III	IV
DOSE LEVEL (MG/M3)		0	2000	10000	20000
BRAIN	MEAN	2.0057	2.0114	2.0624	2.0439
	S.D.	.18098	.21163	.23822	.14768
	N	21	23	23	22
of Male Pups	MEAN	1.9699	1.9982	2.0421	2.0405
	S.D.	.20062	.27934	.35601	.20930
	N	21	23	23	22
of Female Pups	MEAN	2.0415	2.0246	2.0826	2.0473
	S.D.	.19226	.18312	.17288	.14212
	N	21	23	23	22
SPLEEN	MEAN	0.4148	0.3986	0.4143	0.3949
	S.D.	.03911	.03784	.04467	.04883
	N	21	23	23	22
of Male Pups	MEAN	0.4234	0.4055	0.4315	0.4021
	S.D.	.04498	.05447	.05852	.05190
	N	21	23	23	22
of Female Pups	MEAN	0.4062	0.3917	0.3971	0.3876
	S.D.	.05675	.03284	.04849	.05680
	N	21	23	23	22
THYMUS	MEAN	0.4314	0.4766*	0.4841**	0.4631
	S.D.	.06560	.05889	.04908	.05711
	N	21	23	23	22
of Male Pups	MEAN	0.4140	0.4631	0.4602	0.4422
	S.D.	.07853	.06406	.07189	.07941
	N	21	23	23	22
of Female Pups	MEAN	0.4487	0.4902	0.5080**	0.4840
	S.D.	.07897	.06840	.04737	.04990
	N	21	23	23	22

Statistical key: \* = p&lt;0.05 \*\* = p&lt;0.01

TABLE 22 F1 GENERATION

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

DOSE GROUP DOSE LEVEL (MG/M3)		I 0	II 2000	III 10000	IV 20000
SPLEEN	MEAN	20.926	20.019	20.477	19.496
	S.D.	2.8883	2.6336	3.3055	2.6867
	N	21	23	23	22
of Male Pups	MEAN	21.780	20.568	21.717	19.976
	S.D.	3.7017	3.5423	4.4926	3.6668
	N	21	23	23	22
of Female Pups	MEAN	20.071	19.469	19.236	19.015
	S.D.	3.3357	2.1427	3.0478	3.0321
	N	21	23	23	22
THYMUS	MEAN	21.702	23.991	23.922	22.881
	S.D.	3.6459	3.9452	3.7068	3.4589
	N	21	23	23	22
of Male Pups	MEAN	21.231	23.537	23.291	22.044
	S.D.	4.6190	4.3796	5.3658	5.4792
	N	21	23	23	22
of Female Pups	MEAN	22.174	24.446	24.553	23.718
	S.D.	4.2181	4.3078	3.0137	2.6346
	N	21	23	23	22

No statistically significant differences

	Lesion Incidence Summary with Expanded Severity Levels Preface	Table 23
--	--	----------

**Key to Abbreviations**

GI	=	Gland
NAD	=	No abnormal diagnoses
Ctls	=	Controls (Group 1)
Oviducts/Fallop	=	Oviducts and Fallopian Tubes

**Corresponding exposure levels for each group were as follows:**

Group 1	-	0 mg/m <sup>3</sup>
Group 2	-	2,000 mg/m <sup>3</sup>
Group 3	-	10,000 mg/m <sup>3</sup>
Group 4	-	20,000 mg/m <sup>3</sup>

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

Incidence Summary of Microscopic Findings with Severity Levels

Controls from group(s): 1		-- Animals				Affected --			
		-- Males --				-- Females --			
Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls	2	3	4	Ctls	2	3	4
Adrenal Glands	Number examined:	10	0	0	10	10	0	0	10
CONGESTION									
	Nad>	10	0	0	10	9	0	0	10
	Minimal>	0	0	0	0	1	0	0	0
.....	Total Incidence of Finding Observed:	0	0	0	0	1	0	0	0
CORTEX: INFARCT									
	Nad>	10	0	0	10	9	0	0	10
	Marked>	0	0	0	0	1	0	0	0
.....	Total Incidence of Finding Observed:	0	0	0	0	1	0	0	0
Coagulating Gl	Number examined:	10	0	0	10				
Kidneys	Number examined:	1	0	0	1	0	0	0	0
CORTICAL TUBULAR EPITHELIAL CELLS: CYTOPLASMIC EOSINOPHILIC -GLOBULES									
	Nad>	1	0	0	0	0	0	0	0
	Slight>	0	0	0	1	0	0	0	0
.....	Total Incidence of Finding Observed:	0	0	0	1	0	0	0	0
MONONUCLEAR CELL INFILTRATE									
	Minimal>	1	0	0	1	0	0	0	0
.....	Total Incidence of Finding Observed:	1	0	0	1	0	0	0	0
BASOPHILIC TUBULES									
	Minimal>	1	0	0	1	0	0	0	0
.....	Total Incidence of Finding Observed:	1	0	0	1	0	0	0	0
PELVIS: DILATED									
	Nad>	0	0	0	1	0	0	0	0
	Slight>	1	0	0	0	0	0	0	0
.....	Total Incidence of Finding Observed:	1	0	0	0	0	0	0	0

All Diagnoses; Phases: P2; Death types: All; Date of death range: 03-Sep-02 To 17-Oct-02

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

Incidence Summary of Microscopic Findings with Severity Levels

Controls from group(s): 1		-- Animals				Affected --				
		-- Males --				-- Females --				
Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	Ctls	2	3	4	Ctls	2	3	4	
Lungs	Number examined:	10	0	0	10	10	0	0	10	
PERIVASCULAR GRANULOCYTIC INFILTRATE										
	Nad>	10	0	0	10	10	0	0	9	
	Minimal>	0	0	0	0	0	0	0	1	
.....Total Incidence of Finding Observed:										
		0	0	0	0	0	0	0	1	
INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION										
	Nad>	9	0	0	10	9	0	0	9	
	Minimal>	1	0	0	0	1	0	0	1	
.....Total Incidence of Finding Observed:										
		1	0	0	0	1	0	0	1	
ALVEOLAR/INTRAALVEOLAR MACROPHAGES										
	Nad>	7	0	0	7	7	0	0	8	
	Minimal>	3	0	0	3	3	0	0	2	
.....Total Incidence of Finding Observed:										
		3	0	0	3	3	0	0	2	
Nose/Turbinates										
LUMEN: HEMORRHAGE										
	Number examined:	0	0	0	0	0	0	0	1	
	Moderate>	0	0	0	0	0	0	0	1	
.....Total Incidence of Finding Observed:										
		0	0	0	0	0	0	0	1	
SUBMUCOSAL HEMORRHAGE										
	Slight>	0	0	0	0	0	0	0	1	
.....Total Incidence of Finding Observed:										
		0	0	0	0	0	0	0	1	
MAXILLA: FRACTURE										
	Present>	0	0	0	0	0	0	0	1	
.....Total Incidence of Finding Observed:										
		0	0	0	0	0	0	0	1	
SOFT TISSUE: HEMORRHAGE										
	Marked>	0	0	0	0	0	0	0	1	
.....Total Incidence of Finding Observed:										
		0	0	0	0	0	0	0	1	

All Diagnoses; Phases: P2; Death types: All; Date of death range: 03-Sep-02 To 17-Oct-02

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

Incidence Summary of Microscopic Findings with Severity Levels

Controls from group(s): 1	Animal sex: Dosage group: No. in group:	-- Animals				Affected --			
		-- Males --				-- Females --			
Tissues With Diagnoses		Ctls	2	3	4	Ctls	2	3	4
Nose/Turbinates	Number examined:	10	0	0	10	10	0	0	10
PERIODONTAL HEMORRHAGE									
	Moderate>	0	0	0	0	0	0	0	1
	Total Incidence of Finding Observed:	0	0	0	0	0	0	0	1
Ovaries	Number examined:					10	0	0	10
CYST									
	Nad>					10	0	0	9
	Present>					0	0	0	1
	Total Incidence of Finding Observed:					0	0	0	1
Oviducts/Fallop	Number examined:					10	0	0	10
LUMEN: MONONUCLEAR CELLS									
	Nad>					7	0	0	9
	Minimal>					3	0	0	0
	Slight>					0	0	0	1
	Total Incidence of Finding Observed:					3	0	0	1
Pituitary gland	Number examined:	10	0	0	10	10	0	0	10
PARS DISTALIS: CYST(S)									
	Nad>	10	0	0	10	9	0	0	10
	Present>	0	0	0	0	1	0	0	0
	Total Incidence of Finding Observed:	0	0	0	0	1	0	0	0
Prostate	Number examined:	10	0	0	10				
MONONUCLEAR CELL INFILTRATE									
	Nad>	9	0	0	7				
	Minimal>	0	0	0	1				
	Slight>	1	0	0	2				
	Total Incidence of Finding Observed:	1	0	0	3				

All Diagnoses; Phases: P2; Death types: All; Date of death range: 03-Sep-02 To 17-Oct-02

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

Incidence Summary of Microscopic Findings with Severity Levels

Controls from group(s): 1 Tissues With Diagnoses	Animal sex: Dosage group: No. in group:	-- Animals				Affected --			
		Ctl	Males		Female	Ctl	Females		Female
Prostate	10	0	0	0	10	0	0	0	10
INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION									
	Nad>	5	0	0	3				
	Minimal>	4	0	0	2				
	Slight>	1	0	0	4				
	Moderate>	0	0	0	1				
.....Total Incidence of Finding Observed:		5	0	0	7				
Right Epididymis	10	0	0	0	10				
Right Testis	10	0	0	0	10				
Seminal vesicles	10	0	0	0	10				
Thymus	0	0	0	0	1	0	0	0	0
CONGESTION									
	Slight>	0	0	0	1	0	0	0	0
.....Total Incidence of Finding Observed:		0	0	0	1	0	0	0	0
Uterus	10	0	0	0	10	10	0	0	10
LUMEN: DILATED									
	Nad>					10	0	0	10
.....Total Incidence of Finding Observed:						0	0	0	0
MURAL HISTIOCYTES WITH BROWN PIGMENT									
	Nad>					7	0	0	4
	Minimal>					3	0	0	5
	Slight>					0	0	0	1
.....Total Incidence of Finding Observed:						3	0	0	6
Vagina	10	0	0	0	10	10	0	0	10
CYST									
	Nad>					9	0	0	10
	Present>					1	0	0	0
.....Total Incidence of Finding Observed:						1	0	0	0

All Diagnoses; Phases: P2; Death types: All; Date of death range: 03-Sep-02 To 17-Oct-02



	Inhalation Report	Appendix A
--	-------------------	------------

**TABLE OF CONTENTS**

**1. INTRODUCTION.....122**

**2. MATERIALS AND METHODS**

2.1. Husbandry During Exposure Periods.....122

2.2. Test Substance Administration and Chamber Operation.....123

2.3. Exposure Concentration Determination.....127

**3. TABLES**

I. Summary of In-Chamber Observations .....129

II. Chamber Monitoring Records.....137

III. Equipment List.....162

IV. Chamber Distribution Results.....165

V. Miran Calibration.....167

VI. Testing Room and Chambers Environmental Monitoring.....170

**4. FIGURES**

I. Chamber Generation System and Whole-Body Exposure  
Chamber – Group I.....171

II. Chamber Generation System and Whole-Body Exposure  
Chamber – Groups II, III, IV .....172

	Inhalation Report	Appendix A
--	-------------------	------------

## 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 m<sup>3</sup> glass and stainless steel whole-body exposure chamber. The placement of the animals 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: 21 to 28°C

	Inhalation Report	Appendix A
--	-------------------	------------

The daily average temperature within the chamber was outside the desired range on 10/125 days, 105/126 days, 106/125 days and 103/127 days for Groups 1, 2, 3 and 4, respectively.

### **Relative Humidity**

Desired: 40 to 60%  
Actual: 35 to 65%

The daily average relative humidity within the chamber was outside the desired range on 3/125 days, 10/126 days, 6/125 days and 4/127 days for Groups 1, 2, 3 and 4, respectively.

## **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.

	Inhalation Report	Appendix A
--	-------------------	------------

#### 2.2.4. TARGET EXPOSURE LEVELS

Group I - 0 mg/m<sup>3</sup>  
Group II - 2,000 mg/m<sup>3</sup>  
Group III - 10,000 mg/m<sup>3</sup>  
Group IV - 20,000 mg/m<sup>3</sup>

#### 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 (00-6130). The exposure levels were also selected based on the lower flammable limits of the test substance.

#### 2.2.6. FREQUENCY OF ADMINISTRATION

##### Frequency

P<sub>0</sub> males and females received 70 consecutive days (ten weeks) of exposure prior to mating for six hours/day. P<sub>0</sub> 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 P<sub>0</sub> females were exposed daily until weaning of the F<sub>1</sub> offspring on Day 28. P<sub>0</sub> females with no confirmed day of mating but with evidence of pregnancy continued exposure until presumed Day 19 of gestation. P<sub>0</sub> females with no confirmed day of mating and with no evidence of pregnancy (weight gain) continued exposure for 25 days following completion of the mating period and then euthanized. P<sub>0</sub> females with a confirmed day of mating that did not deliver were euthanized on presumed Day 25 of gestation.

P<sub>0</sub> males were exposed daily until euthanasia, which occurred after the date that the last F<sub>1</sub> litters were delivered.

	Inhalation Report	Appendix A
--	-------------------	------------

### 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 m<sup>3</sup> glass and stainless steel exposure 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 ¼" 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.

	Inhalation Report	Appendix A
--	-------------------	------------

The nitrogen for the purge flow system was directed, via ¼” 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 ¼” tubing to a flowmeter regulated by a metering valve. From the flowmeter, the volatilization nitrogen (~ 20 Lpm) flowed via ¼” tubing to a ball and socket joint at the bottom of the volatilization 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 m<sup>3</sup> 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 m<sup>3</sup>). 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 T<sub>99</sub> 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 <sub>99</sub> (min)
I	314	4.8	22
II	303	5.0	23
III	303	5.0	23
IV	312	4.8	22

	Inhalation Report	Appendix A
--	-------------------	------------

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 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.

#### **2.3.2. CHAMBER SAMPLING**

During each exposure, measurements of airborne concentrations were performed in the animals' breathing zone 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.

---

	Inhalation Report	Appendix A
--	-------------------	------------

See Table III for equipment details. See Appendix B for Analytical Report.

### **2.3.3. PARTICLE SIZE DISTRIBUTION**

During each week of exposure, particle size determinations were performed using a TSI Aerodynamic Particle Sizer to characterize the aerodynamic particle size distribution of any aerosol present.

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.



	Inhalation Report	Appendix A
--	-------------------	------------

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	16
Group I – 0 mg/m <sup>3</sup>																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m <sup>3</sup>																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																	
Normal Within Normal Limits	All	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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
Group I – 0 mg/m <sup>3</sup>																
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 <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10,000 mg/m <sup>3</sup>																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20,000 mg/m <sup>3</sup>																
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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table I  
Summary of In-Chamber Observations

Exposure Day	113	114	115	116	117	118	119	120	121	122	123	124	125	126
Group I – 0 mg/m <sup>3</sup>														
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	-	-
Group II – 2,000 mg/m <sup>3</sup>														
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	-
Group III – 10,000 mg/m <sup>3</sup>														
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	-	-
Group IV – 20,000 mg/m <sup>3</sup>														
Normal Within Normal Limits	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.



	Inhalation Report	Appendix A
--	-------------------	------------

Table II  
Chamber Monitoring Records  
Preface

**Key to Abbreviations**

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

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
0	20-May-02	1	0	0	0	0	0	0				24	43
1	21-May-02	2	0	0	0	0	0	0				24	45
2	22-May-02	3	0	0	0	0	0	0				23	44
3	23-May-02	4	0	0	0	0	0	0				24	41
4	24-May-02	5	0	0	0	0	0	0	1.266	2.029	2.89E-03	24	48
5	25-May-02	6	0	0	0	0	0	0				24	42
6	26-May-02	7	0	0	0	0	0	0				24	50
7	27-May-02	8	0	0	0	0	0	0				24	51
8	28-May-02	9	0	0	0	0	0	0				24	49
9	29-May-02	10	0	0	0	0	0	0				24	50
10	30-May-02	11	0	0	0	0	0	0				24	50
11	31-May-02	12	0	0	0	0	0	0	1.594	2.618	7.82E-03	24	51
12	1-Jun-02	13	0	0	0	0	0	0				24	49
13	2-Jun-02	14	0	0	0	0	0	0				24	48
14	3-Jun-02	15	0	0	0	0	0	0				24	42
15	4-Jun-02	16	0	0	0	0	0	0				24	47
16	5-Jun-02	17	0	0	0	0	0	0				24	51
17	6-Jun-02	18	0	0	0	0	0	0				25	49
18	7-Jun-02	19	0	0	0	0	0	0	6.770	2.472	4.80E-03	24	52
19	8-Jun-02	20	0	0	0	0	0	0				24	48
20	9-Jun-02	21	0	0	0	0	0	0				24	48

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number	Nominal (mg/m <sup>3</sup> )	Analytical Chamber Concentration					Particle Size Determinations			Chamber Environment	
				Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
21	10-Jun-02	22	0	0	0	0	0	0				24	49
22	11-Jun-02	23	0	0	0	0	0	0				25	52
23	12-Jun-02	24	0	0	0	0	0	0				24	52
24	13-Jun-02	25	0	0	0	0	0	0				24	49
25	14-Jun-02	26	0	0	0	0	0	0	5.079	2.178	5.91E-03	24	50
26	15-Jun-02	27	0	0	0	0	0	0				24	52
27	16-Jun-02	28	0	0	0	0	0	0				24	50
28	17-Jun-02	29	0	0	0	0	0	0				24	46
29	18-Jun-02	30	0	0	0	0	0	0				24	49
30	19-Jun-02	31	0	0	0	0	0	0				24	48
31	20-Jun-02	32	0	0	0	0	0	0				24	47
32	21-Jun-02	33	0	0	0	0	0	0	1.311	2.371	5.78E-03	24	48
33	22-Jun-02	34	0	0	0	0	0	0				24	47
34	23-Jun-02	35	0	0	0	0	0	0				24	49
35	24-Jun-02	36	0	0	0	0	0	0				25	53
36	25-Jun-02	37	0	0	0	0	0	0				25	48
37	26-Jun-02	38	0	0	0	0	0	0				26	57
38	27-Jun-02	39	0	0	0	0	0	0				25	53
39	28-Jun-02	40	0	0	0	0	0	0	0.8145	1.808	5.81E-03	24	46
40	29-Jun-02	41	0	0	0	0	0	0				24	47
41	30-Jun-02	42	0	0	0	0	0	0				24	46

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number	Nominal (mg/m <sup>3</sup> )	Analytical Chamber Concentration					Particle Size Determinations			Chamber Environment	
				Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
42	1-Jul-02	43	0	0	0	0	0	0				23	47
43	2-Jul-02	44	0	0	0	0	0	0				24	47
44	3-Jul-02	45	0	0	0	0	0	0				24	47
45	4-Jul-02	46	0	0	0	0	0	0				24	47
46	5-Jul-02	47	0	0	0	0	0	0	6.072	2.230	5.90E-03	24	45
47	6-Jul-02	48	0	0	0	0	0	0				24	45
48	7-Jul-02	49	0	0	0	0	0	0				23	46
49	8-Jul-02	50	0	0	0	0	0	0				24	45
50	9-Jul-02	51	0	0	0	0	0	0				23	48
51	10-Jul-02	52	0	0	0	0	0	0				24	45
52	11-Jul-02	53	0	0	0	0	0	0				23	47
53	12-Jul-02	54	0	0	0	0	0	0	2.575	2.185	4.28E-03	24	43
54	13-Jul-02	55	0	0	0	0	0	0				24	45
55	14-Jul-02	56	0	0	0	0	0	0				25	65
56	15-Jul-02	57	0	0	0	0	0	0				23	46
57	16-Jul-02	58	0	0	0	0	0	0				24	44
58	17-Jul-02	59	0	0	0	0	0	0				23	48
59	18-Jul-02	60	0	0	0	0	0	0				23	45
60	19-Jul-02	61	0	0	0	0	0	0	0.7544	1.513	2.37E-02	24	46
61	20-Jul-02	62	0	0	0	0	0	0				26	53
62	21-Jul-02	63	0	0	0	0	0	0				24	43

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number							Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Analytical Chamber Concentration					MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean	
				Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			Temperature (°C)				Humidity (%)	
63	22-Jul-02	64	0	0	0	0	0	0				24	44
64	23-Jul-02	65	0	0	0	0	0	0				24	45
65	24-Jul-02	66	0	0	0	0	0	0				24	48
66	25-Jul-02	67	0	0	0	0	0	0				23	44
67	26-Jul-02	68	0	0	0	0	0	0	4.438	2.416	7.78E-03	24	44
68	27-Jul-02	69	0	0	0	0	0	0				24	47
69	28-Jul-02	70	0	0	0	0	0	0				24	45
70	29-Jul-02	71	0	0	0	0	0	0				24	47
71	30-Jul-02	72	0	0	0	0	0	0				24	44
72	31-Jul-02	73	0	0	0	0	0	0				24	40
73	1-Aug-02	74	0	0	0	0	0	0				24	46
74	2-Aug-02	75	0	0	0	0	0	0	1.193	3.037	1.01E-02	24	46
75	3-Aug-02	76	0	0	0	0	0	0				24	46
76	4-Aug-02	77	0	0	0	0	0	0				24	46
77	5-Aug-02	78	0	0	0	0	0	0				24	45
78	6-Aug-02	79	0	0	0	0	0	0				24	47
79	7-Aug-02	80	0	0	0	0	0	0				24	45
80	8-Aug-02	81	0	0	0	0	0	0				24	44
81	9-Aug-02	82	0	0	0	0	0	0	2.233	1.927	2.53E-03	24	44
82	10-Aug-02	83	0	0	0	0	0	0				24	44
83	11-Aug-02	84	0	0	0	0	0	0				24	43

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
												Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )
			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)						
84	12-Aug-02	85	0	0	0	0	0	0				24	46
85	13-Aug-02	86	0	0	0	0	0	0				25	47
86	14-Aug-02	87	0	0	0	0	0	0				24	53
87	15-Aug-02	88	0	0	0	0	0	0				24	54
88	16-Aug-02	89	0	0	0	0	0	0	0.9051	1.716	5.93E-03	24	59
89	17-Aug-02	90	0	0	0	0	0	0				23	52
90	18-Aug-02	91	0	0	0	0	0	0				23	61
91	19-Aug-02	92	0	0	0	0	0	0				23	52
92	20-Aug-02	93	0	0	0	0	0	0				23	53
93	21-Aug-02	94	0	0	0	0	0	0				23	52
94	22-Aug-02	95	0	0	0	0	0	0				23	52
95	23-Aug-02	96	0	0	0	0	0	0	0.8638	1.773	3.05E-03	23	54
96	24-Aug-02	97	0	0	0	0	0	0				23	51
97	25-Aug-02	98	0	0	0	0	0	0				22	54
98	26-Aug-02	99	0	0	0	0	0	0				22	60
99	27-Aug-02	100	0	0	0	0	0	0				24	52
100	28-Aug-02	101	0	0	0	0	0	0				24	49
101	29-Aug-02	102	0	0	0	0	0	0				24	52
102	30-Aug-02	103	0	0	0	0	0	0	4.006	1.878	5.27E-03	25	50
103	31-Aug-02	104	0	0	0	0	0	0				24	53
104	1-Sep-02	105	0	0	0	0	0	0				24	54

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

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 mg/m <sup>3</sup> (Air Control)													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
												Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )
			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)						
105	2-Sep-02	106	0	0	0	0	0	0				24	49
106	3-Sep-02	107	0	0	0	0	0	0				24	49
107	4-Sep-02	108	0	0	0	0	0	0				24	54
108	5-Sep-02	109	0	0	0	0	0	0				24	51
109	6-Sep-02	110	0	0	0	0	0	0	2.053	2.266	4.45E-03	24	46
110	7-Sep-02	111	0	0	0	0	0	0				24	47
111	8-Sep-02	112	0	0	0	0	0	0				24	49
112	9-Sep-02	113	0	0	0	0	0	0				24	50
113	10-Sep-02	114	0	0	0	0	0	0				24	50
114	11-Sep-02	115	0	0	0	0	0	0				22	51
115	12-Sep-02	116	0	0	0	0	0	0				22	36
116	13-Sep-02	117	0	0	0	0	0	0	1.692	1.826	2.97E-03	22	47
117	14-Sep-02	118	0	0	0	0	0	0				22	52
118	15-Sep-02	119	0	0	0	0	0	0				22	54
119	16-Sep-02	120	0	0	0	0	0	0				22	58
120	17-Sep-02	121	0	0	0	0	0	0				22	49
121	18-Sep-02	122	0	0	0	0	0	0				21	49
122	19-Sep-02	123	0	0	0	0	0	0				21	49
123	20-Sep-02	124	0	0	0	0	0	0	0.9817	1.870	4.67E-03	21	51
124	21-Sep-02	125	0	0	0	0	0	0				21	51
<b>Mean</b>			<b>0</b>		<b>0</b>				<b>2.478</b>	<b>2.117</b>	<b>6.31E-03</b>	<b>23.7</b>	<b>48.6</b>
<b>S.D.</b>			<b>0</b>		<b>0</b>				<b>1.932</b>	<b>0.376</b>	<b>4.75E-03</b>	<b>0.9</b>	<b>4.3</b>

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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment Mean	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
0	20-May-02	1	2140	2020	2010	2040	2010	2020				25	39
1	21-May-02	2	2310	2115	2400	2040	2130	1890				26	41
2	22-May-02	3	2130	2095	2050	2050	2130	2150				25	39
3	23-May-02	4	2180	2080	2130	2230	1900	2060				25	37
4	24-May-02	5	2070	2045	2060	2050	1980	2090	2.575	2.267	5.24E-03	25	43
5	25-May-02	6	2250	2125	2120	2160	2170	2050				25	38
6	26-May-02	7	2110	2075	2170	2110	1940	2080				25	46
7	27-May-02	8	2180	2073	2110	2090	2080	2010				25	45
8	28-May-02	9	2260	2118	2070	2140	2090	2170				25	44
9	29-May-02	10	2200	2140	2140	2270	2090	2060				25	46
10	30-May-02	11	2100	2033	2010	2020	2020	2080				25	45
11	31-May-02	12	2200	2065	2110	2030	2090	2030	1.010	2.046	7.62E-03	25	46
12	1-Jun-02	13	2160	2048	2080	2020	2040	2050				25	44
13	2-Jun-02	14	2100	2040	2130	1930	2010	2090				25	44
14	3-Jun-02	15	2190	2080	2040	2160	2060	2060				26	38
15	4-Jun-02	16	2160	2070	2120	2030	2040	2090				25	42
16	5-Jun-02	17	2160	2068	2060	2040	2070	2100				26	47
17	6-Jun-02	18	2200	2100	2130	2090	2050	2130				26	44
18	7-Jun-02	19	2150	2043	1950	2070	2060	2090	3.562	2.405	7.09E-03	26	46
19	8-Jun-02	20	2130	2055	2140	2010	2040	2030				25	44
20	9-Jun-02	21	2090	2020	2010	2040	1990	2040				25	45



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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
21	10-Jun-02	22	2090	2088	2010	2190	2060	2090				25	44
22	11-Jun-02	23	2130	2010	2020	1950	2010	2060				25	47
23	12-Jun-02	24	2190	1993	1850	1940	2080	2100				26	47
24	13-Jun-02	25	2140	2035	2010	2050	2060	2020				25	45
25	14-Jun-02	26	2130	2063	2020	2080	2060	2090	2.160	1.994	1.99E-03	25	46
26	15-Jun-02	27	2070	1968	1960	1890	1980	2040				25	49
27	16-Jun-02	28	2090	2003	1950	2010	2040	2010				25	46
28	17-Jun-02	29	2170	2023	1990	2020	2060	2020				25	43
29	18-Jun-02	30	2170	2035	1980	2050	2000	2110				25	44
30	19-Jun-02	31	2060	2078	2020	2080	2090	2120				25	43
31	20-Jun-02	32	2070	2048	1930	2040	2060	2160				25	44
32	21-Jun-02	33	2000	2040	1920	2010	2170	2060	1.550	2.741	5.51E-03	25	45
33	22-Jun-02	34	1870	2013	1950	2020	2000	2080				25	45
34	23-Jun-02	35	2270	2050	2000	2100	2090	2010				25	45
35	24-Jun-02	36	2120	2035	1970	1950	2190	2030				26	50
36	25-Jun-02	37	2140	2018	1940	2020	2080	2030				26	43
37	26-Jun-02	38	2180	2018	1830	2090	2080	2070				27	52
38	27-Jun-02	39	1850	2085	2110	2280	1990	1960				26	49
39	28-Jun-02	40	2140	2008	2040	2050	1960	1980	0.9323	2.825	1.05E-02	25	42
40	29-Jun-02	41	1980	2055	2070	2030	2060	2060				25	43
41	30-Jun-02	42	2040	2105	2020	2020	2320	2060				25	43

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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
42	1-Jul-02	43	2140	2073	2030	2090	2060	2110				25	43
43	2-Jul-02	44	1990	2003	1860	1900	2130	2120				25	43
44	3-Jul-02	45	2070	2043	2120	1930	2010	2110				25	43
45	4-Jul-02	46	2100	1970	1780	1810	2210	2080				25	43
46	5-Jul-02	47	2160	2020	2010	2020	2070	1980	2.330	2.126	3.42E-03	25	41
47	6-Jul-02	48	2100	2020	2020	2000	2010	2050				25	42
48	7-Jul-02	49	2170	1978	2660	2110	1600	1540				25	42
49	8-Jul-02	50	2050	2063	2060	2110	2070	2010				25	44
50	9-Jul-02	51	2180	2093	2140	2140	1990	2100				25	45
51	10-Jul-02	52	2030	2030	2000	2080	2000	2040				25	43
52	11-Jul-02	53	2330	2090	2090	2070	2060	2140				25	39
53	12-Jul-02	54	1930	2028	2000	2040	2060	2010	1.411	1.892	2.90E-03	25	40
54	13-Jul-02	55	2090	2068	2030	2010	2110	2120				25	41
55	14-Jul-02	56	2190	2063	2030	2000	2080	2140				25	45
56	15-Jul-02	57	2060	2030	2000	2030	2050	2040				25	42
57	16-Jul-02	58	2020	2013	1900	2070	2070	2010				25	40
58	17-Jul-02	59	1990	2025	2000	2030	2050	2020				25	40
59	18-Jul-02	60	2000	2015	2010	2020	2010	2020				25	41
60	19-Jul-02	61	2080	2013	2020	2020	1920	2090	0.7708	2.246	2.82E-02	25	42
61	20-Jul-02	62	2160	1970	2020	2010	1920	1930				27	47
62	21-Jul-02	63	1980	2098	2360	1780	1880	2370				25	40

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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
63	22-Jul-02	64	2070	1940	2070	1960	1750	1980				25	39
64	23-Jul-02	65	2070	2005	2090	1820	2070	2040				25	42
65	24-Jul-02	66	2010	2028	2020	2000	2070	2020				25	44
66	25-Jul-02	67	1940	2025	2030	2010	2040	2020				25	40
67	26-Jul-02	68	2250	2055	2090	1960	2130	2040	7.454	2.578	8.67E-03	26	41
68	27-Jul-02	69	1960	1988	1940	1900	2040	2070				25	43
69	28-Jul-02	70	1890	2093	2200	2060	2030	2080				25	42
70	29-Jul-02	71	1830	2060	2070	2130	2080	1960				25	43
71	30-Jul-02	72	1910	2015	2020	1960	2020	2060				25	41
72	31-Jul-02	73	1860	2025	1980	2080	2020	2020				25	36
73	1-Aug-02	74	2050	2030	2050	2020	2030	2020				25	42
74	2-Aug-02	75	2060	2003	2020	2000	1980	2010	0.7600	1.761	7.04E-03	25	42
75	3-Aug-02	76	2050	2008	2130	1910	2020	1970				25	42
76	4-Aug-02	77	2040	2023	2240	1920	2010	1920				25	43
77	5-Aug-02	78	2020	1965	1860	2010	1970	2020				25	41
78	6-Aug-02	79	2180	2005	1980	1970	2070	2000				25	41
79	7-Aug-02	80	2010	2048	2030	2020	2060	2080				25	41
80	8-Aug-02	81	2040	1983	1920	2040	2030	1940				25	40
81	9-Aug-02	82	2050	1995	2030	2090	1930	1930	1.582	1.814	1.56E-03	25	41
82	10-Aug-02	83	2070	2020	1990	2010	2060	2020				25	41
83	11-Aug-02	84	1700	2018	2050	2030	1980	2010				25	39

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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
												Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )
			MMAD (μm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)						
84	12-Aug-02	85	2150	2040	1980	1970	2110	2100				25	44
85	13-Aug-02	86	1960	2048	2140	1990	2000	2060				26	45
86	14-Aug-02	87	2040	2010	2040	2010	1990	2000				25	50
87	15-Aug-02	88	2050	2023	2020	2110	1960	2000				25	50
88	16-Aug-02	89	2000	2018	2020	1890	2070	2090	0.9017	1.755	5.48E-03	25	51
89	17-Aug-02	90	2060	2015	2000	2070	2020	1970				25	51
90	18-Aug-02	91	1910	1995	2000	2070	1960	1950				24	55
91	19-Aug-02	92	2010	2023	1970	2060	2020	2040				25	47
92	20-Aug-02	93	2110	1983	2010	1920	2030	1970				24	49
93	21-Aug-02	94	2100	2010	1910	2090	1960	2080				24	46
94	22-Aug-02	95	2180	2015	2030	1980	2080	1970				24	47
95	23-Aug-02	96	2030	2015	2010	2040	1980	2030	0.8546	1.468	1.68E-03	24	48
96	24-Aug-02	97	2270	1963	1920	1980	1990	1960				24	46
97	25-Aug-02	98	1930	2145	3110	1750	1800	1920				23	48
98	26-Aug-02	99	1960	1690	1710	1520	1780	1750				22	51
99	27-Aug-02	100	2260	2013	2000	1980	2090	1980				25	48
100	28-Aug-02	101	1950	1970	2040	1960	1890	1990				25	45
101	29-Aug-02	102	2050	2020	1980	2070	2040	1990				25	49
102	30-Aug-02	103	2060	2003	1930	2040	2020	2020	2.649	1.835	5.31E-03	25	46
103	31-Aug-02	104	2150	2098	1920	2320	2080	2070				25	50
104	1-Sep-02	105	2120	2005	2040	2020	2060	1900				26	51

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

Chamber Monitoring Results Cumulative Exposure Record Group II - 2,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Nominal (mg/m <sup>3</sup> )	Analytical Chamber Concentration					Particle Size Determinations			Chamber Environment Mean	
				Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
105	2-Sep-02	106	2190	2023	2020	2050	2020	2000				26	46
106	3-Sep-02	107	2050	2063	2130	2090	2070	1960				25	48
107	4-Sep-02	108	2160	2128	2100	2110	2140	2160				26	52
108	5-Sep-02	109	2190	2030	1970	2060	2020	2070				26	49
109	6-Sep-02	110	2270	2038	2030	2070	2060	1990	1.879	1.954	4.28E-03	25	44
110	7-Sep-02	111	1960	2043	2020	2020	2060	2070				25	46
111	8-Sep-02	112	2130	1958	2130	1670	2060	1970				25	48
112	9-Sep-02	113	1880	2058	2080	2010	2000	2140				26	47
113	10-Sep-02	114	2030	2003	2010	2050	1970	1980				24	47
114	11-Sep-02	115	2060	2138	2060	2030	1830	2630				23	47
115	12-Sep-02	116	2220	2030	1850	2050	2130	2090				23	35
116	13-Sep-02	117	2100	2020	1870	2130	2020	2060	1.460	1.976	2.71E-03	23	44
117	14-Sep-02	118	1970	1915	1900	1820	1860	2080				23	47
118	15-Sep-02	119	1970	2038	2140	1950	2020	2040				23	49
119	16-Sep-02	120	2180	2025	1990	2000	2010	2100				23	54
120	17-Sep-02	121	2030	1955	2000	1860	1970	1990				23	45
121	18-Sep-02	122	2100	2008	2060	1830	2140	2000				22	46
122	19-Sep-02	123	2270	2030	1870	2070	2090	2090				22	46
123	20-Sep-02	124	2150	2033	2020	2020	2000	2090	0.9022	1.642	3.78E-03	22	47
124	21-Sep-02	125	1820	2360	2010	3350	2060	2020				22	45
125	22-Sep-02	126	2480	1963	2150	1500	2130	2070				22	47
<b>Mean</b>			<b>2086</b>		<b>2034</b>				<b>1.930</b>	<b>2.074</b>	<b>6.28E-03</b>	<b>24.8</b>	<b>44.5</b>
<b>S.D.</b>			<b>116</b>		<b>128</b>				<b>1.589</b>	<b>0.375</b>	<b>6.01E-03</b>	<b>1.0</b>	<b>3.7</b>

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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )				MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean	
												Temperature (°C)	Humidity (%)
0	20-May-02	1	10500	10520	11000	11200	9870	10000				25	39
1	21-May-02	2	9770	9460	10400	7950	8490	11000				25	43
2	22-May-02	3	9900	9883	10400	10000	10200	8930				25	40
3	23-May-02	4	10300	10300	10300	10700	10600	9580				25	38
4	24-May-02	5	9940	9933	11100	9480	8450	10700	1.479	2.759	6.32E-03	25	44
5	25-May-02	6	10400	10200	10100	10400	10300	10000				25	39
6	26-May-02	7	10000	10070	10000	10400	10100	9780				25	46
7	27-May-02	8	10200	9563	9290	10100	8660	10200				25	47
8	28-May-02	9	10500	10300	10100	10200	10500	10400				25	46
9	29-May-02	10	10300	10550	10700	10200	10600	10700				25	47
10	30-May-02	11	10400	10160	9910	10700	10100	9910				25	46
11	31-May-02	12	10300	9958	9580	9650	10600	10000	1.312	3.321	1.22E-02	25	48
12	1-Jun-02	13	10500	10130	10100	10400	10000	10000				26	46
13	2-Jun-02	14	10200	9825	9740	9480	9680	10400				26	46
14	3-Jun-02	15	9980	9508	8610	9480	10200	9740				26	38
15	4-Jun-02	16	10600	10390	9650	10800	10400	10700				26	44
16	5-Jun-02	17	10300	9703	10200	9580	9420	9610				26	50
17	6-Jun-02	18	10300	10510	10100	11300	11100	9520				26	46
18	7-Jun-02	19	10700	10780	10800	10800	10600	10900	2.064	1.972	3.77E-03	26	49
19	8-Jun-02	20	10500	10260	9940	9610	11200	10300				25	45
20	9-Jun-02	21	9900	10090	9810	10400	11100	9060				25	46

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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
21	10-Jun-02	22	10600	9530	8020	8700	10700	10700				25	47
22	11-Jun-02	23	11000	10550	10500	10400	10500	10800				25	49
23	12-Jun-02	24	10900	10730	11400	10200	10300	11000				26	48
24	13-Jun-02	25	11100	10830	11200	11100	10600	10400				25	45
25	14-Jun-02	26	10500	10420	11100	10500	10400	9680	5.291	2.429	2.54E-03	25	48
26	15-Jun-02	27	10300	9990	10900	9420	10700	8940				25	50
27	16-Jun-02	28	9820	8448	7750	7930	8880	9230				25	47
28	17-Jun-02	29	10800	10080	9910	10200	10500	9710				25	47
29	18-Jun-02	30	10800	10560	11100	10600	9350	11200				25	46
30	19-Jun-02	31	11000	11030	10800	11000	11700	10600				25	43
31	20-Jun-02	32	10400	10330	10700	10200	10000	10400				25	45
32	21-Jun-02	33	10800	10630	10300	10500	10700	11000	0.7116	1.850	4.60E-03	25	46
33	22-Jun-02	34	9950	10300	10200	10000	10600	10400				25	46
34	23-Jun-02	35	10600	10630	10200	11400	10500	10400				25	48
35	24-Jun-02	36	10600	10550	10400	10500	10000	11300				26	49
36	25-Jun-02	37	10300	9858	10300	9780	9350	10000				26	45
37	26-Jun-02	38	11000	10750	10800	10700	10900	10600				27	55
38	27-Jun-02	39	10900	10930	10600	11700	10500	10900				26	51
39	28-Jun-02	40	8710	9308	7370	10600	10200	9060	0.9592	3.354	1.46E-02	25	44
40	29-Jun-02	41	9560	10480	10300	10400	10500	10700				25	48
41	30-Jun-02	42	9890	10130	9910	10500	9320	10800				25	46

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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
42	1-Jul-02	43	10100	10250	9910	10200	10400	10500				25	46
43	2-Jul-02	44	10300	10160	10400	9940	10200	10100				25	45
44	3-Jul-02	45	9830	10080	10000	10000	9910	10400				25	46
45	4-Jul-02	46	9320	10180	9580	9940	10000	11200				25	46
46	5-Jul-02	47	10100	10350	10600	10200	10300	10300	2.245	1.929	3.04E-03	25	44
47	6-Jul-02	48	10400	10350	10600	10200	10000	10600				25	44
48	7-Jul-02	49	9920	9888	10800	9970	10200	8580				25	44
49	8-Jul-02	50	10200	10330	10100	10200	10400	10600				25	43
50	9-Jul-02	51	9470	10040	10200	9840	10000	10100				25	45
51	10-Jul-02	52	9440	10010	10400	9680	10100	9870				25	43
52	11-Jul-02	53	10900	11130	11200	10900	11100	11300				25	41
53	12-Jul-02	54	10300	10630	10900	10300	10600	10700	4.287	2.678	7.17E-03	25	42
54	13-Jul-02	55	10200	10550	10100	10900	10800	10400				25	42
55	14-Jul-02	56	9650	10240	10600	10100	9970	10300				25	48
56	15-Jul-02	57	9830	10180	10400	10000	10200	10100				25	44
57	16-Jul-02	58	9240	10060	10600	9910	9870	9840				25	42
58	17-Jul-02	59	9480	10020	10000	9580	10300	10200				25	42
59	18-Jul-02	60	9590	10060	10600	9780	9870	9970				25	44
60	19-Jul-02	61	9900	10060	9910	9740	10200	10400	0.7465	1.936	3.57E-02	25	44
61	20-Jul-02	62	10200	10840	12500	9870	10600	10400				28	51
62	21-Jul-02	63	10600	9660	9580	9350	10000	9710				25	42



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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
											Temperature (°C)	Humidity (%)	
63	22-Jul-02	64	10900	10750	11100	10500	10700	10700				25	42
64	23-Jul-02	65	10100	11030	11200	10300	10800	11800				25	43
65	24-Jul-02	66	10400	11180	10700	11400	11700	10900				25	46
66	25-Jul-02	67	10300	10280	9910	10500	10400	10300				25	42
67	26-Jul-02	68	10300	10480	10700	10700	10300	10200	3.274	2.121	4.65E-03	25	43
68	27-Jul-02	69	10200	10310	9420	10900	10700	10200				26	45
69	28-Jul-02	70	10400	10600	10100	10300	11000	11000				25	44
70	29-Jul-02	71	10400	10880	11100	11300	10500	10600				25	45
71	30-Jul-02	72	10200	10300	10200	10400	10500	10100				25	43
72	31-Jul-02	73	10600	10450	10100	10000	10900	10800				25	38
73	1-Aug-02	74	10300	10600	10200	10200	10700	11300				25	42
74	2-Aug-02	75	10200	10130	10000	10100	10300	10100	0.7805	2.616	1.47E-02	25	44
75	3-Aug-02	76	10400	10500	10000	10700	10100	11200				25	44
76	4-Aug-02	77	10300	10600	11300	10500	10300	10300				25	45
77	5-Aug-02	78	10500	10080	9520	10300	10000	10500				25	43
78	6-Aug-02	79	10400	10450	11000	9680	10700	10400				25	43
79	7-Aug-02	80	10500	10330	10100	10300	10500	10400				25	44
80	8-Aug-02	81	10200	10380	10500	10700	10200	10100				25	42
81	9-Aug-02	82	9510	9950	10300	10100	9000	10400	3.432	2.206	3.44E-03	25	43
82	10-Aug-02	83	10300	10680	10200	11200	10300	11000				25	43
83	11-Aug-02	84	10200	10190	8470	10700	11000	10600				25	42

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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment Mean	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
84	12-Aug-02	85	9980	10200	10200	10700	9780	10100				25	45
85	13-Aug-02	86	9920	10230	10000	10500	10400	10000				26	45
86	14-Aug-02	87	9960	10130	10300	10300	9910	10000				25	51
87	15-Aug-02	88	10300	10230	10200	10100	10300	10300				26	52
88	16-Aug-02	89	10200	10430	10300	10600	10500	10300	0.8886	1.874	1.06E-02	25	52
89	17-Aug-02	90	10300	9890	10300	9970	9190	10100				25	52
90	18-Aug-02	91	10300	10200	10100	10200	10100	10400				25	58
91	19-Aug-02	92	10400	10340	9910	10600	9650	11200				25	49
92	20-Aug-02	93	10600	10850	10100	12300	10600	10400				24	51
93	21-Aug-02	94	10300	10230	10600	10000	10200	10100				24	49
94	22-Aug-02	95	10300	10130	10100	10400	10100	9910				24	48
95	23-Aug-02	96	9460	10140	9650	10000	10100	10800	1.007	1.708	1.76E-03	24	52
96	24-Aug-02	97	10300	10900	10800	10900	11100	10800				24	48
97	25-Aug-02	98	10400	10440	10500	9840	10600	10800				23	50
98	26-Aug-02	99	10600	10400	10500	10300	10200	10600				23	55
99	27-Aug-02	100	10600	10500	10100	10100	11100	10700				25	51
100	28-Aug-02	101	10200	10280	10200	10100	10300	10500				25	47
101	29-Aug-02	102	10500	10730	10500	10700	11100	10600				25	52
102	30-Aug-02	103	10300	10200	10000	10300	10600	9940	2.192	2.076	2.49E-03	25	50
103	31-Aug-02	104	10300	9890	9230	11200	9610	9520				25	52
104	1-Sep-02	105	10400	10350	10600	10400	10400	10000				26	55

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

Chamber Monitoring Results Cumulative Exposure Record Group III - 10,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment Mean	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
105	2-Sep-02	106	10300	9808	8330	10100	10000	10800				26	47
106	3-Sep-02	107	10060	10360	9740	11100	10300	10300				26	47
107	4-Sep-02	108	10400	10330	10400	10000	10300	10600				26	53
108	5-Sep-02	109	10500	10170	9580	10400	10300	10400				25	49
109	6-Sep-02	110	10300	10230	10300	10400	10200	10000	1.699	2.020	3.79E-03	25	46
110	7-Sep-02	111	9760	10360	10700	9740	10400	10600				26	47
111	8-Sep-02	112	10900	10100	10400	11300	8390	10300				25	51
112	9-Sep-02	113	8660	9805	10200	10500	10500	8020				25	49
113	10-Sep-02	114	9640	10060	9450	10400	10300	10100				24	50
114	11-Sep-02	115	10500	10430	10200	10600	10500	10400				23	48
115	12-Sep-02	116	10000	10190	9650	10100	10800	10200				23	35
116	13-Sep-02	117	9980	10530	10200	11200	10100	10600	2.158	2.345	4.18E-03	23	46
117	14-Sep-02	118	10300	10100	10100	10000	10100	10200				23	49
118	15-Sep-02	119	10400	10110	8810	9740	11000	10900				24	50
119	16-Sep-02	120	9870	10120	9580	10000	10600	10300				23	55
120	17-Sep-02	121	9760	9725	10200	8920	10200	9580				23	47
121	18-Sep-02	122	10500	10430	10600	10500	10400	10200				22	48
122	19-Sep-02	123	10200	10100	10600	10000	9580	10200				22	47
123	20-Sep-02	124	10200	9878	10200	8510	10800	10000	1.012	1.858	3.87E-03	22	48
124	21-Sep-02	125	10400	9908	9320	9810	10300	10200				22	49
<b>Mean</b>			<b>10231</b>		<b>10260</b>				<b>1.974</b>	<b>2.281</b>	<b>7.75E-03</b>	<b>24.9</b>	<b>46.3</b>
<b>S.D.</b>			<b>422</b>		<b>621</b>				<b>1.321</b>	<b>0.491</b>	<b>8.11E-03</b>	<b>0.9</b>	<b>3.9</b>

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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
												Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )
			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)						
0	20-May-02	1	19900	19900	20700	20400	20100	18400				25	40
1	21-May-02	2	19600	20050	19200	20100	21200	19700				25	43
2	22-May-02	3	19800	19980	20100	18600	20100	21100				25	41
3	23-May-02	4	19400	19880	19200	20100	20200	20000				25	38
4	24-May-02	5	19200	19850	19400	20000	19800	20200	0.8291	2.360	6.00E-03	25	44
5	25-May-02	6	20200	20080	19600	20300	20200	20200				25	39
6	26-May-02	7	19700	19980	19800	19600	20500	20000				25	49
7	27-May-02	8	19300	19300	19200	19400	19400	19200				25	47
8	28-May-02	9	20100	19330	19800	20200	19700	17600				25	46
9	29-May-02	10	21100	20630	19900	20900	21200	20500				25	47
10	30-May-02	11	21000	20650	20500	20700	20800	20600				25	47
11	31-May-02	12	21000	20700	19500	21200	20900	21200	0.8517	1.896	9.78E-03	25	49
12	1-Jun-02	13	21200	20900	21100	20800	20800	20900				25	46
13	2-Jun-02	14	20500	20450	20300	20300	20500	20700				25	46
14	3-Jun-02	15	21200	20880	19800	20800	21500	21400				26	40
15	4-Jun-02	16	20800	20150	20200	19700	21900	18800				25	44
16	5-Jun-02	17	20800	20900	20900	20900	20800	21000				25	49
17	6-Jun-02	18	20900	20430	20700	20100	20000	20900				26	45
18	7-Jun-02	19	20900	20780	20700	20800	20600	21000	1.971	2.121	3.48E-03	25	49
19	8-Jun-02	20	21200	20800	21400	20600	20600	20600				25	47
20	9-Jun-02	21	19600	20080	20900	20500	19000	19900				25	47

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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment Mean	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
21	10-Jun-02	22	20800	20280	19000	20500	20700	20900				25	46
22	11-Jun-02	23	20300	20430	20100	19900	20800	20900				25	50
23	12-Jun-02	24	20300	20200	20200	19600	20100	20900				26	49
24	13-Jun-02	25	20500	20250	20200	20400	20900	19500				25	47
25	14-Jun-02	26	20200	20230	20900	20900	18400	20700	5.914	2.276	4.20E-03	25	49
26	15-Jun-02	27	20500	20330	20900	20200	20100	20100				25	50
27	16-Jun-02	28	19800	19380	18700	20000	19800	19000				25	47
28	17-Jun-02	29	20500	20700	20400	20600	21200	20600				25	45
29	18-Jun-02	30	20500	20530	20300	20200	21100	20500				25	46
30	19-Jun-02	31	20300	20650	20600	20700	21200	20100				25	44
31	20-Jun-02	32	20400	20630	20600	20300	20900	20700				25	46
32	21-Jun-02	33	20400	20750	20900	20600	20700	20800	0.7548	2.568	7.09E-03	25	46
33	22-Jun-02	34	19900	20200	20200	20000	20700	19900				25	47
34	23-Jun-02	35	20800	20500	20600	19900	20800	20700				25	46
35	24-Jun-02	36	20200	20480	20200	20400	20100	21200				26	50
36	25-Jun-02	37	20100	19930	19300	20500	21000	18900				26	45
37	26-Jun-02	38	19900	20350	20700	20400	20200	20100				27	54
38	27-Jun-02	39	20100	20450	20000	21200	20400	20200				26	50
39	28-Jun-02	40	19500	20200	18200	20800	21100	20700	0.8633	2.981	1.41E-02	25	44
40	29-Jun-02	41	20600	20950	20900	20900	20700	21300				25	46
41	30-Jun-02	42	20500	20980	21100	20500	21100	21200				25	45

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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )				MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean	
					Temperature (°C)	Humidity (%)							
42	1-Jul-02	43	19800	20050	20100	20000	19900	20200				25	45
43	2-Jul-02	44	20200	20280	20700	20200	20100	20100				25	46
44	3-Jul-02	45	20300	20380	20400	20200	20100	20800				25	46
45	4-Jul-02	46	19800	20180	20000	20400	20100	20200				24	46
46	5-Jul-02	47	19900	20080	20000	20100	20200	20000	1.992	1.992	3.00E-03	25	43
47	6-Jul-02	48	19900	20100	18500	20800	20700	20400				24	44
48	7-Jul-02	49	19600	19500	19600	19600	19500	19300				24	45
49	8-Jul-02	50	20000	19950	19600	19200	20500	20500				25	45
50	9-Jul-02	51	18600	20300	20200	19900	20300	20800				25	45
51	10-Jul-02	52	19700	21480	21500	22500	20700	21200				25	43
52	11-Jul-02	53	19900	20750	20900	21100	20900	20100				25	41
53	12-Jul-02	54	20000	20580	19600	20800	22700	19200	1.753	2.591	4.16E-03	25	42
54	13-Jul-02	55	19400	20150	20000	20200	20100	20300				25	43
55	14-Jul-02	56	19100	21050	21200	21300	20500	21200				25	46
56	15-Jul-02	57	19700	19980	19700	20100	20000	20100				25	42
57	16-Jul-02	58	19300	20050	19500	20100	20200	20400				25	44
58	17-Jul-02	59	19700	20100	20100	20200	20100	20000				25	43
59	18-Jul-02	60	19400	20050	20400	19800	19900	20100				25	45
60	19-Jul-02	61	19500	20150	19500	20000	20400	20700	0.7553	2.000	3.61E-02	25	45
61	20-Jul-02	62	19500	18800	20500	18400	18900	17400				28	50
62	21-Jul-02	63	19800	18800	20200	18900	19000	17100				25	42

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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Nominal (mg/m <sup>3</sup> )	Analytical Chamber Concentration					Particle Size Determinations			Chamber Environment	
				Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean		
					Temperature (°C)	Humidity (%)							
63	22-Jul-02	64	21000	20830	21000	20800	20800	20700				25	43
64	23-Jul-02	65	20800	20980	20700	21200	21000	21000				25	45
65	24-Jul-02	66	20700	20630	20900	20500	20500	20600				25	46
66	25-Jul-02	67	19700	20150	19800	20300	20400	20100				25	43
67	26-Jul-02	68	19900	19900	19300	18900	21200	20200	2.545	2.031	4.30E-03	25	43
68	27-Jul-02	69	19300	19900	20100	19600	20700	19200				25	45
69	28-Jul-02	70	19300	19900	19700	19900	19800	20200				25	44
70	29-Jul-02	71	19500	20850	20700	20700	20800	21200				25	45
71	30-Jul-02	72	20000	20350	20400	20700	20100	20200				25	43
72	31-Jul-02	73	19600	20200	19900	19700	21100	20100				25	37
73	1-Aug-02	74	19500	20180	20300	20200	20100	20100				25	43
74	2-Aug-02	75	19900	20100	20200	20100	20000	20100	0.7247	2.079	1.44E-02	25	44
75	3-Aug-02	76	19400	20350	19700	20000	21200	20500				25	44
76	4-Aug-02	77	19700	19480	20900	19600	20400	17000				25	46
77	5-Aug-02	78	19700	19550	17200	20100	20000	20900				25	44
78	6-Aug-02	79	18700	19530	19500	20000	18400	20200				25	43
79	7-Aug-02	80	19600	20050	19800	19900	20400	20100				25	43
80	8-Aug-02	81	19600	20100	20000	20200	20000	20200				25	43
81	9-Aug-02	82	19900	20250	19900	20100	20100	20900	1.450	1.728	1.65E-03	25	43
82	10-Aug-02	83	19000	19750	19200	20200	19400	20200				25	43
83	11-Aug-02	84	20000	20300	20000	20100	20900	20200				25	40

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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment Mean	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )			MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Temperature (°C)	Humidity (%)	
84	12-Aug-02	85	19300	20150	20200	19700	20300	20400				25	46
85	13-Aug-02	86	19600	20200	20400	20000	20200	20200				26	47
86	14-Aug-02	87	19500	20150	20100	19600	20400	20500				25	50
87	15-Aug-02	88	19500	20150	20000	20100	20300	20200				25	52
88	16-Aug-02	89	19900	20300	19700	20500	20300	20800	0.8933	2.038	1.25E-02	25	53
89	17-Aug-02	90	19900	20080	19700	20300	20200	20100				25	51
90	18-Aug-02	91	19800	20330	20500	20200	20400	20200				25	56
91	19-Aug-02	92	19900	20450	20200	20900	20200	20500				25	49
92	20-Aug-02	93	19500	20180	20400	20100	20200	20000				24	50
93	21-Aug-02	94	19800	20350	19900	20400	20500	20600				24	48
94	22-Aug-02	95	20100	20530	20400	20200	20700	20800				24	48
95	23-Aug-02	96	20100	20130	20100	20000	19500	20900	0.8054	1.526	2.19E-03	24	51
96	24-Aug-02	97	19200	20100	20100	19000	20100	21200				24	47
97	25-Aug-02	98	20300	20380	20300	20500	20600	20100				23	50
98	26-Aug-02	99	20500	20680	20700	20200	21000	20800				23	54
99	27-Aug-02	100	19400	20050	19800	20000	20300	20100				25	49
100	28-Aug-02	101	19700	20330	20500	20400	20000	20400				25	47
101	29-Aug-02	102	19300	20180	20100	20200	20100	20300				25	53
102	30-Aug-02	103	20100	20930	20600	21100	20800	21200	6.519	2.272	3.44E-03	25	50
103	31-Aug-02	104	19000	20750	21500	22300	19300	19900				25	53
104	1-Sep-02	105	20000	20230	19500	19500	21100	20800				25	53



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

Chamber Monitoring Results Cumulative Exposure Record Group IV - 20,000 mg/m <sup>3</sup>													
Day	Date	Exposure Number	Analytical Chamber Concentration						Particle Size Determinations			Chamber Environment	
			Nominal (mg/m <sup>3</sup> )	Mean (mg/m <sup>3</sup> )	Individual (mg/m <sup>3</sup> )				MMAD (µm)	GSD	TMC (mg/m <sup>3</sup> )	Mean	
												Temperature (°C)	Humidity (%)
105	2-Sep-02	106	19400	20750	20900	20100	21300	20700				26	49
106	3-Sep-02	107	19000	22300	20400	24300	22100	22400				26	51
107	4-Sep-02	108	19500	21650	22400	20900	21100	22200				25	56
108	5-Sep-02	109	18300	20830	21200	20400	20800	20900				25	52
109	6-Sep-02	110	16900	20480	19300	22100	20300	20200	2.168	2.485	4.75E-03	25	48
110	7-Sep-02	111	19300	20280	20100	20000	20800	20200				26	45
111	8-Sep-02	112	20400	20080	19200	18300	22500	20300				25	48
112	9-Sep-02	113	19500	19980	18900	20200	20000	20800				26	47
113	10-Sep-02	114	20000	19900	18200	20700	20300	20400				24	47
114	11-Sep-02	115	20400	19880	18100	20300	20600	20500				23	47
115	12-Sep-02	116	20800	20600	23900	18800	19800	19900				23	35
116	13-Sep-02	117	18900	20100	20900	20200	19500	19800	6.780	2.703	6.61E-03	24	46
117	14-Sep-02	118	19900	20130	19900	20400	20100	20100				23	49
118	15-Sep-02	119	19500	19830	19500	18100	20800	20900				24	51
119	16-Sep-02	120	20100	20330	20200	20800	20200	20100				23	54
120	17-Sep-02	121	20000	20350	20200	20200	20900	20100				23	47
121	18-Sep-02	122	19600	20150	20400	20100	20000	20100				22	48
122	19-Sep-02	123	19300	20050	18800	20300	20300	20800				22	47
123	20-Sep-02	124	20100	20180	20400	20100	20300	19900	0.9822	1.629	3.27E-03	22	48
124	21-Sep-02	125	20300	20150	18200	19800	21700	20900				22	49
125	22-Sep-02	126	20300	19730	18800	19900	20200	20000				22	49
126	23-Sep-02	127	20400	20100	20100	20000	20100	20200				22	48
<b>Mean</b>			<b>19903</b>		<b>20230</b>				<b>2.142</b>	<b>2.182</b>	<b>7.83E-03</b>	<b>24.8</b>	<b>46.4</b>
<b>S.D.</b>			<b>635</b>		<b>775</b>				<b>2.048</b>	<b>0.385</b>	<b>8.09E-03</b>	<b>0.9</b>	<b>3.7</b>

	Inhalation Report	Appendix A
--	-------------------	------------

Table III  
Equipment List

**Exposure Chamber**

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

**Chamber Air-flow Gauges**

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

**Chamber Static Pressure**

Dwyer<sup>®</sup> Magnehelic<sup>®</sup> gauge (Dwyer<sup>®</sup> Instruments Inc.); calibrated prestudy with a Dwyer<sup>®</sup> Mark II Manometer, Model 25 (Dwyer<sup>®</sup> 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).

T<sup>°</sup> Sentry Digital Alarm Module, Model 110 (Hampshire Controls Corp.).

Balston<sup>®</sup> Microfibre<sup>™</sup> Disposable Filter Units, No. L9933-05 (Grade DQ).

Quick-disconnect fitting with toggle valve (Rego<sup>®</sup>).

**Compound Reservoir**

5-gallon cylinder (Manchester Tank).

**Balance**

Mettler PM30000K (Mettler Instrument Corporation).

Pelooze, Model No. 4010.

	Inhalation Report	Appendix A
--	-------------------	------------

Table III  
Equipment List

**Flowmeters**

Flowmeter, size 0-4, 0-10, 0-20, 0-40 Lpm (Dwyer<sup>®</sup> Instruments Inc.).  
Top Trak<sup>™</sup> Mass Flow Meter size 0-1 Lpm, Model 821-1 (Sierra Instruments),  
calibrated prestudy with a Gilibrator<sup>®</sup> Bubble Generator, P/N D800286, S/N  
569-S, flow cell assembly P/N D800268, BD #1860).

**Pressure/Vacuum Gauges**

Ashcroft<sup>®</sup> backpressure gauge, P/N 733-47.  
GAST<sup>®</sup> vacuum gauge, Model 169-01.  
Matheson<sup>®</sup> backpressure gauge, P/N 63-3161.  
Norgreen backpressure gauge, P/N 9892K23.  
Dwyer<sup>®</sup> Magnehelic<sup>®</sup> gauge (Dwyer<sup>®</sup> Instruments Inc.).

**Regulator**

Norgreen, P/N 9892K23.

**Valves**

Metering Valve, Model SS-4L Series (Nupro<sup>®</sup> Co.).

**Tubing**

Plastic Size 1/2", 1/4", 3/16" (Norton); 1/8" (Tygon).  
Teflon<sup>®</sup>, 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).

**Filter**

Balston<sup>®</sup> Microfibre<sup>™</sup> Disposable Filter Units, Grade DQ.

	Inhalation Report	Appendix A
--	-------------------	------------

Table III  
Equipment List

**Air Analyzer**

MIRAN<sup>®</sup> 1A-CVF Ambient Air Analyzer (Wilks) with a Cole Parmer strip recorder Model 201 and a Micronta<sup>®</sup> 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.

	Inhalation Report	Appendix A
--	-------------------	------------

Table IV  
Chamber Distribution Records

Group (target)	Date	Port	IR Conc (mg/m <sup>3</sup> )	Ratio to H-3	
II (2,000 mg/m <sup>3</sup> )	17-May-02	H-3	1930	1.00	
		H-9	1910	0.99	
		H-3	1950	1.00	
		H-1	1890	0.97	
		H-2	1940	0.99	
		H-3	2080	1.00	
		H-8	2020	0.97	
		H-7	2100	1.01	
		18-May-02	H-3	2040	1.00
			H-14	2090	1.02
H-13	1950		0.96		
H-12	1870		0.92		
H-11	1880		0.92		
III (10,000 mg/m <sup>3</sup> )	17-May-02	H-3	10300	1.00	
		H-1	8390	0.81	
		H-2	9680	0.94	
		H-8	10200	0.99	
		H-3	9870	1.00	
		H-9	9680	0.98	
		H-7	10000	1.01	
		18-May-02	H-3	9940	1.00
			H-14	10100	1.02
			H-13	9610	0.97
H-12	9840		0.99		
H-3	10700		1.00		
IV (20,000 mg/m <sup>3</sup> )	17-May-02	H-3	19300	1.00	
		H-9	19000	0.98	
		H-3	20300	1.05	
		H-1	20400	1.06	
		H-2	20200	1.05	
		H-7	20400	1.06	

	Inhalation Report	Appendix A
--	-------------------	------------

Table IV  
Chamber Distribution Records

Group (target)	Date	Port	IR Conc (mg/m <sup>3</sup> )	Ratio to H-3	
IV (20,000 mg/m <sup>3</sup> )	17-May-02	H-3	20300	1.00	
		H-8	20100	0.99	
	18-May-02	H-3	20100	1.00	
		H-14	20200	1.00	
		H-13	20300	1.01	
			H-12	20400	1.02
			H-3	19900	1.00
			H-11	20000	1.01

	Inhalation Report	Appendix A
--	-------------------	------------

Table V  
Miran Calibration

### Methodology for Gasoline DIPE Vapor Condensate

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

wavelength, microns	10.2
pathlength, dial setting	5.30
slit width, mm	1
range, absorbance	1
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

Calibrations: The Miran<sup>®</sup> 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 ( $\mu\text{L}$ )	Calculated Concentration <sup>1</sup> ( $\text{mg}/\text{m}^3$ )	Absorbance <sup>2</sup>		
		Operator 1 (volts)	Operator 2 (volts)	Average (volts)
8.4	953	0.0333	0.0325	0.0319
		0.0313	0.0304	
17	1929	0.0684	0.0711	0.0692
		0.0675	0.0698	
84	9532	0.319	0.321	0.318
		0.315	0.316	
170	19291	0.648	0.580	0.622
		0.618	0.640	
210	23830	0.788	0.838	0.789
		0.770	0.760	

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

where density = 0.64 mg/ $\mu\text{L}$  and 5.64 L = volume of Miran cell

<sup>2</sup>Due to the variability of the initial results, two additional injections (one per operator) were performed for each concentration. All four values per concentration were used for the regression analysis.

	Inhalation Report	Appendix A
--	-------------------	------------

Table V  
Miran Calibration

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

Injection Volume ( $\mu\text{L}$ )	Calculated Concentration ( $\text{mg}/\text{m}^3$ )	Expected Absorbance Reading (volts)	Acceptable Absorbance Range (volts)
17	1929	0.0692	0.0588 – 0.0796
84	9532	0.318	0.2703 – 0.366
170	19291	0.622	0.529 – 0.715

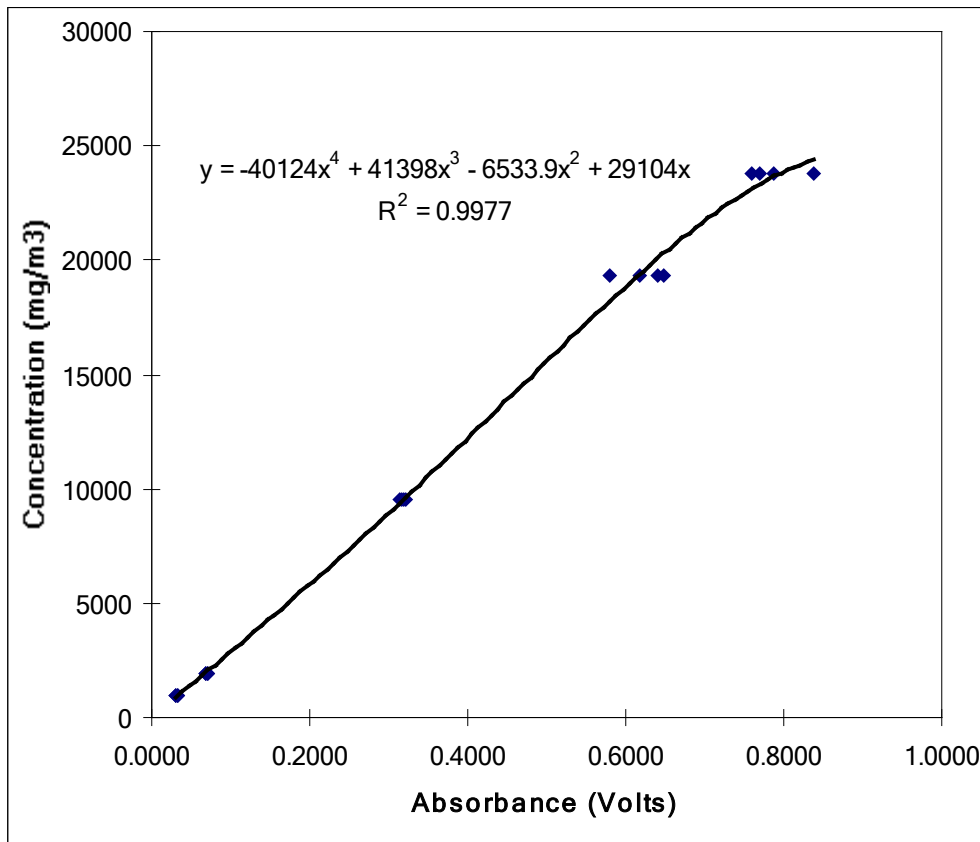
The absorbance was recorded after each injection. The absorbance was considered satisfactory if it was within 15% of the original calibration series. If any of the absorbance values fell outside the 15% range, the injection was rechecked as follows. The volume for the value that was out of range was 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.



	Inhalation Report	Appendix A
--	-------------------	------------

Table V  
Miran Calibration

Calibration Curve for Gasoline DIPE Vapor Condensate



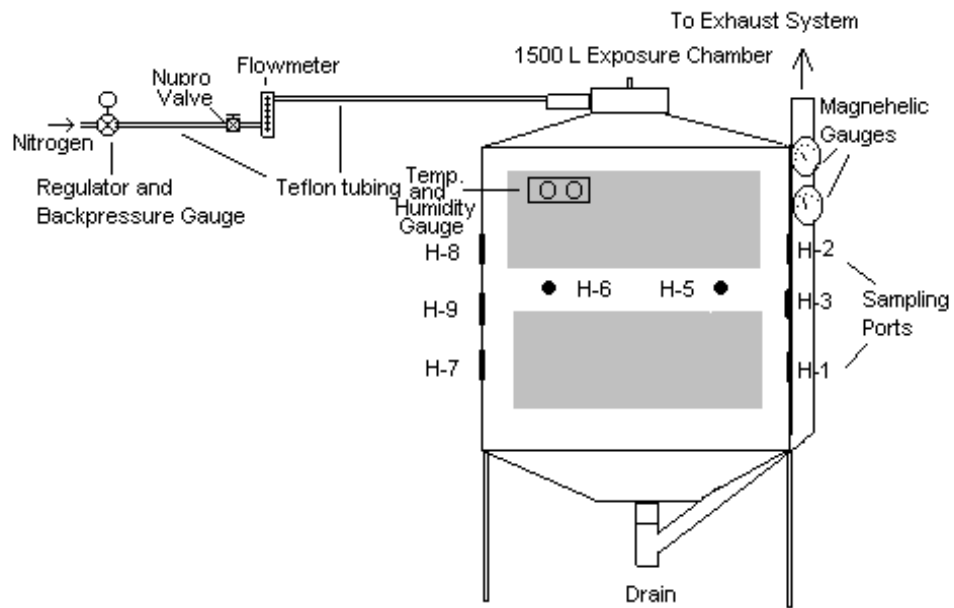
		Appendix A
--	--	------------

Table VI  
Testing Room and Chambers Environmental Monitoring

Interval	Location	Testing Room Test Substance (mg/m <sup>3</sup> )	Testing Room Light (Ft Candles)	Testing Room Noise (dB)	Chamber Oxygen (%)
Pretest	Room 808	0	39.4	60.3	-
	Group I	-	-	-	20
	Group II	-	-	-	20
	Group III	-	-	-	20
	Group IV	-	-	-	20
Week 0	Room 808	0	35.0	62.5	-
	Group I	-	-	-	20
	Group II	-	-	-	20
	Group III	-	-	-	20
	Group IV	-	-	-	20
Week 9	Room 808	0	38.1	61.1	-
	Group I	-	-	-	20
	Group II	-	-	-	20
	Group III	-	-	-	20
	Group IV	-	-	-	20
Week 18	Room 808	0	37.3	64.2	-
	Group I	-	-	-	20
	Group II	-	-	-	20
	Group III	-	-	-	20
	Group IV	-	-	-	20

Group I	Inhalation Report	Appendix A
---------	-------------------	------------

Figure I  
Chamber Generation System  
and Whole-Body Exposure Chamber

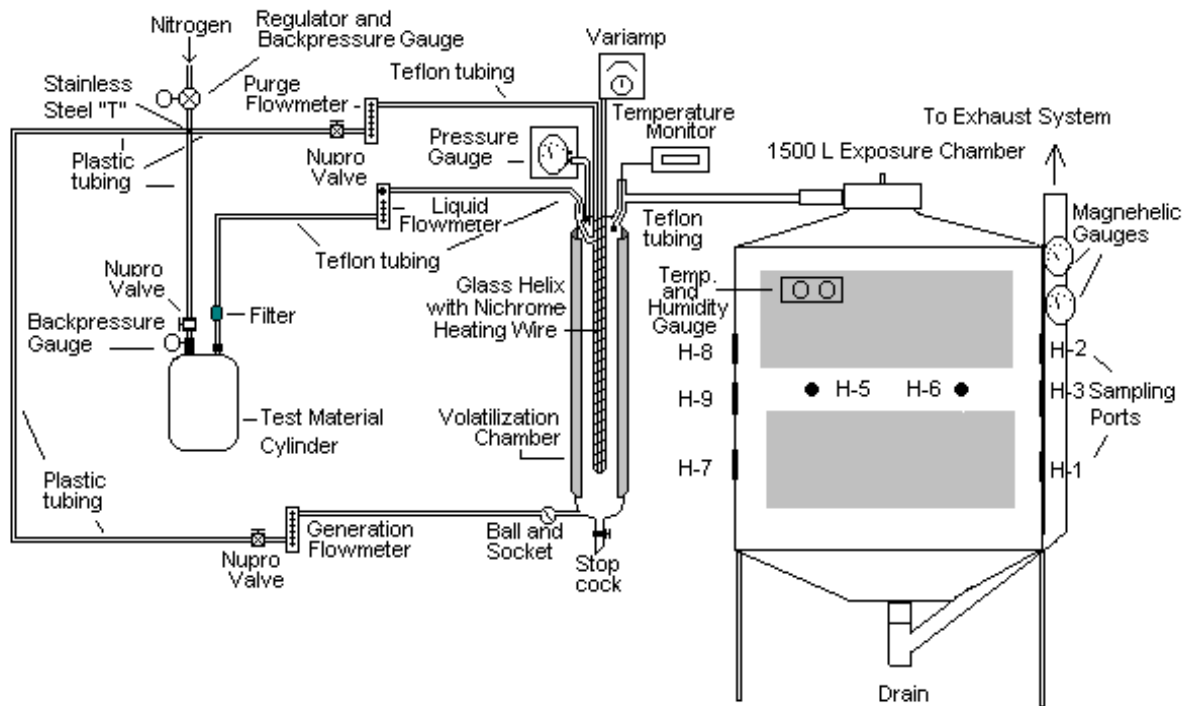


Notes:

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 five levels within the exposure chamber.

Groups II, III and IV	Inhalation Report	Appendix A
-----------------------	-------------------	------------

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 five levels within the exposure chamber.

---

	Analytical Report	Appendix B
--	-------------------	------------

**STUDY TITLE**

**Analytical Report For:**

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

**AUTHOR**

**Cindy Z. Rao**

**REPORT DATE**

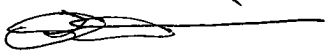
**02 August 2011**

**STUDY NUMBER**

**00-4205**

	Analytical Report	Appendix B
--	-------------------	------------


**SIGNATURES**

Written by:   
Cindy Z. Rao  
Scientist III  
Formulation Chemistry

02 Aug 11  
Date

Reviewed by:   
Kai Kurylak, B.S.  
Senior Operations Director  
Analytical Services

02 Aug 11  
Date

Approved by:   
Barbara A. Litzenberger, B.S. MT (ASCP)  
Director  
Analytical Services

02 Aug 11  
Date

	Analytical Report	Appendix B
--	-------------------	------------

**Table of Contents**

Study Title Page..... 173  
 Signature Page ..... 174  
 Table of Contents..... 175  
 1. Summary..... 176  
 2. Experimental Procedures ..... 176  
 3. Results and Discussion ..... 177

**Tables**

I. Chamber Components Confirmation - Area Percent of Gasoline DIPE Vapor  
 Condensate (Pretest/Trials)..... 178  
  
 II. Summary of Chamber Components Confirmation – Area Percent of Gasoline DIPE  
 Vapor Condensate (Exposures 0-126) ..... 179  
  
 III. Chamber Components Confirmation – Area Percent of Gasoline DIPE Vapor  
 Condensate (Exposures 0-126)..... 180

**Figures**

I. Typical Gas Chromatogram of Group I Charcoal Tube Sample ..... 199  
 II. Typical Gas Chromatogram of Group II Charcoal Tube Sample ..... 200  
 III. Typical Gas Chromatogram of Group III Charcoal Tube Sample ..... 201  
 IV. Typical Gas Chromatogram of Group IV Charcoal Tube Sample ..... 202

---

	Analytical Report	Appendix B
--	-------------------	------------

## 1. Summary

Samples of the test substance (Gasoline DIPE 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 DIPE Vapor Condensate from charcoal tubes with Carbon Disulfide (CS<sub>2</sub>). The test substance's major components were then quantified (relative area percent) utilizing Gas Chromatography with Flame Ionization Detection (FID).

## 2. Experimental Procedures

The analytical method (HLS-001-02) 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. 00-6130.

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 DIPE Vapor Condensate were extracted from the charcoal tubes with Carbon Disulfide (CS<sub>2</sub>). 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.



	Analytical Report	Appendix B
--	-------------------	------------

Date of sample receipt and analysis is listed as follows:

Interval	Date of Exposures	Date Received	Date Analyzed
Pretest /Trials	17 May 02	17 May 02	17-18 May 02
Exposure-0	20 May 02	20 May 02	20-21 May 02
Exposure-7	27 May 02	27 May 02	27-28 May 02
Exposure-14	03 June 02	03 June 02	03-04 June 02
Exposure-21	10 June 02	10 June 02	10-12 June 02
Exposure-28	17 June 02	17 June 02	17-18 June 02
Exposure-35	24 June 02	24 June 02	24-25 June 02
Exposure-42	01 July 02	01 July 02	01-02 July 02
Exposure-49	08 July 02	08 July 02	08-09 July 02
Exposure-56	15 July 02	15 July 02	15-16 July 02
Exposure-63	22 July 02	22 July 02	22-23 July 02
Exposure-70	29 July 02	29 July 02	29-30 July 02
Exposure-77	05 Aug 02	05 Aug 02	05-06 Aug 02
Exposure-84	12 Aug 02	12 Aug 02	13-14 Aug 02
Exposure-91	19 Aug 02	19 Aug 02	19-20 Aug 02
Exposure-98	26 Aug 02	26 Aug 02	26-27 Aug 02
Exposure-105	02 Sep 02	03 Sep 02	03-05 Sep 02
Exposure-112	09 Sep 02	09 Sep 02	09-10 Sep 02
Exposure-119	16 Sep 02	16 Sep 02	16-17 Sep 02
Exposure-126	23 Sep 02	23 Sep 02	23-24Sep 02

### 3. Results and Discussion

During the trials and exposures, Gasoline DIPE Vapor Condensate was analyzed to determine the area percent of the test substance's major components in the chamber. No drift in the major component proportions was noted throughout the study. For some of the exposures (Exposures 84, 91, 98 and 105), a different GC column was used, which separated the N-hexane and DIPE showing around 3 area % of N-hexane and 18 to 20 area % of DIPE. 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.

	Analytical Report	Appendix B
--	-------------------	------------

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

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	101 Sample	201 Sample	301 Sample	401 Sample	TM Standard 2	Spiked Control 2
<b>Compound</b>	001_002	001_003	001_004	001_005	001_006	001_007	001_008	001_009	001_010
Isobutane	ND	1.50	1.68	ND	1.97	1.94	1.94	1.57	1.63
N-Butane	ND	9.13	9.79	ND	10.96	10.83	10.84	9.41	9.67
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.37	0.36	0.35	0.35
Isopentane	ND	32.08	32.34	ND	33.24	32.89	32.84	32.11	32.33
N-Pentane	ND	7.50	7.45	ND	7.58	7.38	7.40	7.38	7.40
Trans-2-pentene	ND	1.12	1.11	ND	1.08	1.23	1.26	1.31	1.24
2,3-Dimethylbutane	ND	1.81	1.78	ND	1.75	1.73	1.73	1.80	1.80
2-Methylpentane	ND	5.56	5.48	ND	5.30	5.27	5.27	5.50	5.49
3-Methylpentane	ND	3.23	3.18	ND	3.07	3.05	3.05	3.20	3.19
N-hexane & DIPE	ND	22.39	21.89	ND	20.82	20.94	20.95	22.14	21.95
Methylcyclopentane	ND	1.45	1.42	ND	1.37	1.35	1.35	1.43	1.42
2,4-Dimethylpentane	ND	1.26	1.24	ND	1.15	1.17	1.17	1.24	1.24
Benzene	ND	2.22	2.12	ND	2.04	2.01	2.01	2.20	2.12
2-Methylhexane	ND	1.34	1.32	ND	1.20	1.24	1.23	1.33	1.32
2,3-Dimethylpentane	ND	1.40	1.38	ND	1.25	1.29	1.29	1.39	1.37
3-Methylhexane	ND	1.56	1.53	ND	1.39	1.44	1.43	1.55	1.54
Isooctane	ND	1.74	1.72	ND	1.49	1.61	1.61	1.73	1.71
Toluene	ND	3.19	3.06	ND	2.83	2.85	2.85	3.20	3.10
<b>Total</b>	0.00	98.83	98.85	0.00	98.86	98.59	98.58	98.84	98.87

ND = none detected.

	Analytical Report	Appendix B
--	-------------------	------------

**Table II. Summary of Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
(Exposures 0-126)**

Compound	Area %								Spiked Control 2
	TM Standard-1	Spiked Control 1	Samples Group I	Samples Group II	Samples Group III	Samples Group IV	All Samples <sup>a</sup>	TM Standard-2	
Isobutane	1.61	1.69	ND	1.97	1.85	1.95	1.92	1.60	1.65
N-Butane	9.57	9.86	ND	10.99	10.54	10.90	10.81	9.59	9.74
3-Methyl-1-butene	0.35	0.35	ND	0.35	0.35	0.36	0.35	0.34	0.34
Isopentane	32.26	32.44	ND	33.27	32.84	33.13	33.08	32.35	32.35
N-Pentane	7.38	7.35	ND	7.42	7.38	7.42	7.41	7.46	7.42
Trans-2-pentene	1.11	1.17	ND	1.16	1.16	1.15	1.16	1.14	1.13
2,3-Dimethylbutane	1.76	1.76	ND	1.68	1.71	1.66	1.68	1.78	1.77
2-Methylpentane	5.31	5.31	ND	5.12	5.17	5.08	5.12	5.29	5.29
3-Methylpentane	3.21	3.19	ND	3.08	3.13	3.09	3.10	3.20	3.20
N-hexane & DIPE	22.24	21.92	ND	20.92	21.39	21.12	21.14	22.16	22.03
Methylcyclopentane	1.44	1.42	ND	1.37	1.39	1.37	1.38	1.43	1.43
2,4-Dimethylpentane	1.16	1.16	ND	1.11	1.14	1.11	1.12	1.17	1.16
Benzene	2.29	2.20	ND	2.13	2.12	2.10	2.12	2.28	2.21
2-Methylhexane	1.33	1.31	ND	1.23	1.27	1.24	1.25	1.32	1.32
2,3-Dimethylpentane	1.38	1.36	ND	1.28	1.32	1.29	1.30	1.37	1.37
3-Methylhexane	1.54	1.52	ND	1.42	1.47	1.44	1.44	1.53	1.53
Isooctane	1.71	1.70	ND	1.56	1.63	1.60	1.60	1.69	1.70
Toluene	3.08	2.96	ND	2.74	2.85	2.77	2.79	3.09	3.00
<b>Total</b>	<b>98.73</b>	<b>98.67</b>	<b>0.00</b>	<b>98.80</b>	<b>98.71</b>	<b>98.78</b>	<b>98.77</b>	<b>98.79</b>	<b>98.64</b>

ND = none detected. <sup>a</sup> Groups II, III and IV only

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-A. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 0**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1001	Sample 2001	Sample 3001	Sample 400T	TM Standard 2	Spiked Control 2
<b>Compound</b>	002_002	002_003	002_004	002_005	002_006	002_007	002_008	002_009	002_010
Isobutane	ND	1.39	1.43	ND	2.02	1.99	2.00	1.38	1.42
N-Butane	ND	8.55	8.76	ND	11.19	10.94	11.03	8.56	8.70
3-Methyl-1-butene	ND	0.34	0.34	ND	0.37	0.37	0.37	0.34	0.34
Isopentane	ND	31.43	31.66	ND	33.41	32.93	33.04	31.53	31.67
N-Pentane	ND	7.31	7.29	ND	7.40	7.36	7.35	7.31	7.30
Trans-2-pentene	ND	1.24	1.29	ND	1.19	1.29	1.25	1.27	1.22
2,3-Dimethylbutane	ND	2.00	1.98	ND	1.69	1.72	1.71	1.99	2.00
2-Methylpentane	ND	5.66	5.65	ND	5.29	5.28	5.27	5.65	5.66
3-Methylpentane	ND	3.30	3.29	ND	3.06	3.06	3.05	3.29	3.30
N-hexane & DIPE	ND	22.88	22.68	ND	20.75	20.94	20.89	22.80	22.75
Methylcyclopentane	ND	1.49	1.48	ND	1.36	1.35	1.35	1.48	1.48
2,4-Dimethylpentane	ND	1.30	1.29	ND	1.15	1.17	1.16	1.29	1.29
Benzene	ND	2.29	2.20	<LOQ	2.02	2.00	2.00	2.27	2.21
2-Methylhexane	ND	1.39	1.38	ND	1.20	1.24	1.23	1.38	1.38
2,3-Dimethylpentane	ND	1.45	1.44	ND	1.25	1.30	1.29	1.44	1.44
3-Methylhexane	ND	1.62	1.61	ND	1.40	1.44	1.44	1.61	1.61
Isooctane	ND	1.82	1.81	ND	1.50	1.62	1.60	1.80	1.78
Toluene	ND	3.34	3.22	ND	2.73	2.86	2.84	3.40	3.24
<b>Total</b>	0.00	98.80	98.80	0.00	98.98	98.86	98.87	98.79	98.79

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-B. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 7**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1002	Sample 2002	Sample 3002	Sample 4002	TM Standard 2	Spiked Control 2
<b>Compound</b>	003_002	003_003	003_004	003_005	003_006	003_007	003_008	003_009	003_010
Isobutane	ND	1.61	1.67	ND	2.10	2.00	1.99	1.60	1.66
N-Butane	ND	9.55	9.80	ND	11.38	11.00	11.06	9.65	9.86
3-Methyl-1-butene	ND	0.36	0.36	ND	0.38	0.37	0.37	0.36	0.36
Isopentane	ND	32.33	32.63	<LOQ	33.34	33.21	33.12	32.43	32.53
N-Pentane	ND	7.35	7.33	<LOQ	7.32	7.41	7.30	7.37	7.23
Trans-2-pentene	ND	1.31	1.37	ND	1.32	1.24	1.36	1.28	1.28
2,3-Dimethylbutane	ND	1.78	1.78	ND	1.73	1.72	1.72	1.80	1.80
2-Methylpentane	ND	5.48	5.46	ND	5.22	5.29	5.28	5.48	5.47
3-Methylpentane	ND	3.19	3.17	ND	3.03	3.06	3.06	3.18	3.18
N-hexane & DIPE	ND	22.05	21.77	ND	20.44	20.86	20.88	22.00	21.87
Methylcyclopentane	ND	1.43	1.41	ND	1.34	1.36	1.36	1.42	1.42
2,4-Dimethylpentane	ND	1.24	1.23	ND	1.15	1.17	1.17	1.23	1.23
Benzene	ND	2.20	2.11	ND	2.02	2.01	2.02	2.18	2.12
2-Methylhexane	ND	1.32	1.30	ND	1.24	1.23	1.23	1.31	1.31
2,3-Dimethylpentane	ND	1.37	1.36	ND	1.26	1.28	1.28	1.36	1.37
3-Methylhexane	ND	1.53	1.51	ND	1.40	1.42	1.43	1.53	1.53
Isooctane	ND	1.71	1.69	ND	1.56	1.59	1.57	1.70	1.71
Toluene	ND	3.01	2.88	ND	2.68	2.65	2.66	2.96	2.91
<b>Total</b>	0.00	98.82	98.83	0.00	98.91	98.87	98.86	98.84	98.84

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-C. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 14**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1003	Sample 2003	Sample 3003	Sample 4003	TM Standard 2	Spiked Control 2
<b>Compound</b>	004_002	004_003	004_004	004_005	004_006	004_007	004_008	004_009	004_010
Isobutane	ND	1.71	1.75	ND	1.97	1.97	1.94	1.70	1.73
N-Butane	ND	9.96	10.09	ND	10.90	10.90	10.79	9.91	10.01
3-Methyl-1-butene	ND	0.36	0.36	ND	0.37	0.37	0.37	0.36	0.36
Isopentane	ND	32.54	32.68	ND	32.94	33.02	32.90	32.49	32.54
N-Pentane	ND	7.31	7.50	ND	7.46	7.34	7.52	7.48	7.46
Trans-2-pentene	ND	1.25	1.21	ND	1.11	1.16	1.13	1.15	1.20
2,3-Dimethylbutane	ND	1.76	1.77	ND	1.73	1.73	1.72	1.79	1.79
2-Methylpentane	ND	5.43	5.42	ND	5.30	5.31	5.30	5.42	5.43
3-Methylpentane	ND	3.15	3.15	ND	3.07	3.08	3.07	3.15	3.15
N-hexane & DIPE	ND	21.75	21.52	ND	20.97	20.98	21.02	21.72	21.65
Methylcyclopentane	ND	1.41	1.40	ND	1.37	1.37	1.37	1.41	1.40
2,4-Dimethylpentane	ND	1.22	1.22	ND	1.18	1.18	1.18	1.22	1.22
Benzene	ND	2.17	2.10	ND	2.06	2.03	2.03	2.17	2.11
2-Methylhexane	ND	1.29	1.28	ND	1.24	1.24	1.25	1.29	1.29
2,3-Dimethylpentane	ND	1.35	1.34	ND	1.30	1.30	1.30	1.35	1.35
3-Methylhexane	ND	1.51	1.50	ND	1.45	1.44	1.45	1.51	1.51
Isooctane	ND	1.66	1.65	ND	1.63	1.61	1.64	1.68	1.69
Toluene	ND	2.99	2.91	ND	2.83	2.83	2.85	3.06	2.98
<b>Total</b>	<b>0.00</b>	<b>98.82</b>	<b>98.85</b>	<b>0.00</b>	<b>98.88</b>	<b>98.86</b>	<b>98.83</b>	<b>98.86</b>	<b>98.87</b>

ND = none detected.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-D. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 21**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1004	Sample 2004	Sample 3004	Sample 4004	TM Standard 2	Spiked Control 2
<b>Compound</b>	005_002	005_003	005_004	005_005	005_006	005_007	005_008	005_009	005_010
Isobutane	ND	1.60	1.74	ND	2.00	1.31	1.98	1.65	1.72
N-Butane	ND	9.50	10.01	ND	10.97	8.49	10.94	9.75	9.99
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.35	0.37	0.36	0.36
Isopentane	ND	32.30	32.57	ND	33.21	31.63	33.12	32.62	32.75
N-Pentane	ND	7.37	7.44	ND	7.42	7.46	7.41	7.47	7.42
Trans-2-pentene	ND	1.19	1.22	ND	1.22	1.26	1.24	1.15	1.18
2,3-Dimethylbutane	ND	1.80	1.78	ND	1.73	1.87	1.75	1.78	1.77
2-Methylpentane	ND	5.50	5.44	ND	5.30	5.70	5.29	5.46	5.44
3-Methylpentane	ND	3.18	3.15	ND	3.07	3.33	3.06	3.17	3.15
N-hexane & DIPE	ND	22.09	21.68	ND	20.82	22.90	20.89	21.83	21.62
Methylcyclopentane	ND	1.44	1.41	ND	1.36	1.51	1.36	1.41	1.41
2,4-Dimethylpentane	ND	1.24	1.22	ND	1.17	1.31	1.17	1.22	1.22
Benzene	ND	2.22	2.12	ND	2.03	2.27	2.02	2.18	2.11
2-Methylhexane	ND	1.32	1.30	ND	1.23	1.40	1.24	1.30	1.29
2,3-Dimethylpentane	ND	1.38	1.35	ND	1.29	1.46	1.29	1.35	1.35
3-Methylhexane	ND	1.54	1.51	ND	1.44	1.62	1.44	1.51	1.50
Isooctane	ND	1.73	1.69	ND	1.59	1.83	1.61	1.68	1.69
Toluene	ND	3.00	2.86	ND	2.64	3.10	2.71	2.94	2.86
<b>Total</b>	0.00	98.75	98.85	0.00	98.86	98.80	98.89	98.83	98.83

ND = none detected.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-E. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 28**

Compound	Area %								
	Blank Control	TM Standard 1	Spiked Control 1	Sample 1005	Sample 2005	Sample 3005	Sample 4005	TM Standard 2	Spiked Control 2
	006_002	006_003	006_004	006_005	006_006	006_007	006_008	006_009	006_010
Isobutane	ND	1.67	1.74	ND	1.98	1.98	1.99	1.64	1.62
N-Butane	ND	9.78	9.97	ND	10.93	10.91	10.94	9.74	9.72
3-Methyl-1-butene	ND	0.36	0.36	ND	0.37	0.37	0.37	0.36	0.36
Isopentane	ND	32.44	32.52	ND	33.18	33.05	33.00	32.42	32.44
N-Pentane	ND	7.42	7.32	ND	7.39	7.43	7.34	7.48	7.42
Trans-2-pentene	ND	1.20	1.25	ND	1.15	1.20	1.21	1.20	1.14
2,3-Dimethylbutane	ND	1.77	1.77	ND	1.75	1.72	1.74	1.78	1.79
2-Methylpentane	ND	5.44	5.44	ND	5.30	5.29	5.28	5.45	5.49
3-Methylpentane	ND	3.16	3.15	ND	3.07	3.06	3.06	3.16	3.19
N-hexane & DIPE	ND	21.81	21.67	ND	20.88	21.02	20.93	21.84	21.90
Methylcyclopentane	ND	1.42	1.41	ND	1.36	1.36	1.36	1.42	1.42
2,4-Dimethylpentane	ND	1.22	1.23	ND	1.17	1.17	1.18	1.22	1.24
Benzene	<LOQ	2.18	2.11	<LOQ	2.02	2.01	2.01	2.17	2.13
2-Methylhexane	ND	1.30	1.31	ND	1.24	1.24	1.25	1.30	1.32
2,3-Dimethylpentane	ND	1.36	1.36	ND	1.29	1.30	1.30	1.36	1.37
3-Methylhexane	ND	1.52	1.52	ND	1.44	1.44	1.45	1.52	1.53
Isooctane	ND	1.70	1.71	ND	1.59	1.60	1.64	1.70	1.72
Toluene	ND	3.07	2.99	ND	2.78	2.83	2.85	3.07	3.03
<b>Total</b>	0.00	98.82	98.83	0.00	98.89	98.98	98.90	98.83	98.83

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.



	Analytical Report	Appendix B
--	-------------------	------------

**Table III-F. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 35**

Compound	Area %								
	Blank Control	TM Standard 1	Spiked Control 1	Sample 1006	Sample 2006	Sample 3006	Sample 4006	TM Standard 2	Spiked Control 2
	007_002	007_003	007_004	007_005	007_006	007_007	007_008	007_009	007_010
Isobutane	ND	1.63	1.76	ND	2.01	2.03	2.03	1.64	1.70
N-Butane	ND	9.40	9.85	ND	11.08	11.13	11.11	9.49	9.43
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.38	0.37	0.36	0.33
Isopentane	ND	32.43	32.78	ND	33.60	33.33	33.26	32.63	31.82
N-Pentane	ND	7.45	7.50	ND	7.51	7.33	7.51	7.48	7.38
Trans-2-pentene	ND	1.30	1.17	ND	1.20	1.19	1.13	1.17	0.99
2,3-Dimethylbutane	ND	1.84	1.81	ND	1.76	1.68	1.67	1.79	1.74
2-Methylpentane	ND	5.63	5.57	ND	4.88	5.28	5.27	5.63	5.45
3-Methylpentane	ND	3.27	3.24	ND	3.09	3.06	3.05	3.27	3.17
N-hexane & DIPE	ND	21.55	21.20	ND	21.02	20.81	20.89	21.55	20.79
Methylcyclopentane	ND	1.46	1.44	ND	1.36	1.35	1.35	1.46	1.41
2,4-Dimethylpentane	ND	1.27	1.25	ND	1.12	1.16	1.16	1.26	1.23
Benzene	ND	2.09	2.00	<LOQ	2.04	2.00	2.00	2.08	1.94
2-Methylhexane	ND	1.36	1.34	ND	1.19	1.22	1.22	1.35	1.31
2,3-Dimethylpentane	ND	1.42	1.38	ND	1.22	1.28	1.28	1.41	1.37
3-Methylhexane	ND	1.58	1.55	ND	1.37	1.42	1.42	1.57	1.53
Isooctane	ND	1.79	1.75	ND	1.40	1.57	1.57	1.77	1.73
Toluene	ND	3.02	2.89	ND	2.69	2.74	2.77	3.03	2.88
<b>Total</b>	0.00	98.84	98.84	0.00	98.91	98.96	99.06	98.94	96.20

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-G. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 42**

Compound	Area %								
	Blank Control	TM Standard 1	Spiked Control 1	Sample 1007	Sample 2007	Sample 3007	Sample 4007	TM Standard 2	Spiked Control 2
	008_002	008_003	008_004	008_005	008_006	008_007	008_008	008_009	008_010
Isobutane	ND	1.66	1.76	ND	1.95	1.84	1.85	1.68	1.74
N-Butane	ND	9.75	10.02	ND	10.88	10.41	10.54	9.81	9.99
3-Methyl-1-butene	ND	0.36	0.36	ND	0.37	0.35	0.37	0.36	0.36
Isopentane	ND	32.44	32.56	ND	32.93	32.90	33.22	32.69	32.65
N-Pentane	ND	7.37	7.35	ND	7.24	7.51	7.49	7.53	7.42
Trans-2-pentene	ND	1.22	1.24	ND	1.26	1.19	1.18	1.11	1.16
2,3-Dimethylbutane	ND	1.79	1.79	ND	1.74	1.76	1.78	1.80	1.78
2-Methylpentane	ND	5.48	5.44	ND	5.32	5.41	4.94	5.01	5.45
3-Methylpentane	ND	3.18	3.16	ND	3.09	3.14	3.14	3.19	3.16
N-hexane & DIPE	ND	21.98	21.69	ND	21.02	21.28	21.39	22.02	21.75
Methylcyclopentane	ND	1.42	1.40	ND	1.37	1.40	1.40	1.42	1.40
2,4-Dimethylpentane	ND	1.22	1.22	ND	1.19	1.19	1.19	1.22	1.21
Benzene	<LOQ	2.17	2.09	<LOQ	2.04	2.06	2.05	2.16	2.09
2-Methylhexane	ND	1.30	1.29	ND	1.26	1.26	1.24	1.30	1.29
2,3-Dimethylpentane	ND	1.35	1.36	ND	1.31	1.32	1.30	1.35	1.34
3-Methylhexane	ND	1.51	1.51	ND	1.46	1.46	1.45	1.51	1.49
Isooctane	ND	1.65	1.68	ND	1.64	1.60	1.57	1.65	1.63
Toluene	ND	3.00	2.93	ND	2.81	2.79	2.77	3.04	2.92
<b>Total</b>	0.00	98.85	98.85	0.00	98.88	98.87	98.87	98.85	98.83

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-H. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 49**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1008	Sample 2008	Sample 3008	Sample 4008	TM Standard 2	Spiked Control 2
<b>Compound</b>	009_002	009_003	009_004	009_005	009_006	009_007	009_008	009_009	009_010
Isobutane	ND	1.66	1.73	ND	1.98	1.96	1.97	1.66	1.74
N-Butane	ND	9.80	10.02	ND	10.94	10.95	10.91	9.76	10.02
3-Methyl-1-butene	ND	0.35	0.35	ND	0.32	0.37	0.37	0.36	0.36
Isopentane	ND	32.53	32.64	ND	33.37	33.31	33.21	32.65	32.73
N-Pentane	ND	7.42	7.42	ND	7.45	7.45	7.51	7.52	7.53
Trans-2-pentene	ND	1.19	1.22	ND	1.12	1.28	1.19	1.14	1.20
2,3-Dimethylbutane	ND	1.79	1.78	ND	1.76	1.74	1.74	1.79	1.80
2-Methylpentane	ND	4.98	4.95	ND	4.85	4.83	4.82	4.99	4.97
3-Methylpentane	ND	3.19	3.17	ND	3.10	3.08	3.07	3.19	3.17
N-hexane & DIPE	ND	22.11	21.80	ND	21.10	20.89	21.10	22.06	21.83
Methylcyclopentane	ND	1.43	1.42	ND	1.37	1.37	1.36	1.42	1.41
2,4-Dimethylpentane	ND	1.22	1.23	ND	1.17	1.18	1.17	1.22	1.21
Benzene	ND	2.21	2.12	ND	2.01	2.00	1.99	2.18	2.11
2-Methylhexane	ND	1.30	1.32	ND	1.23	1.24	1.24	1.30	1.28
2,3-Dimethylpentane	ND	1.35	1.37	ND	1.30	1.29	1.29	1.35	1.34
3-Methylhexane	ND	1.51	1.53	ND	1.44	1.44	1.44	1.50	1.50
Isooctane	ND	1.65	1.71	ND	1.58	1.62	1.62	1.64	1.63
Toluene	ND	3.13	3.03	ND	2.80	2.82	2.84	3.11	3.01
<b>Total</b>	0.00	98.82	98.81	0.00	98.89	98.82	98.84	98.84	98.84

ND = none detected.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-I. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 56**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1009	Sample 2009	Sample 3009	Sample 4009	TM Standard 2	Spiked Control 2
<b>Compound</b>	010_002	010_003	010_004	010_005	010_006	010_007	010_008	010_009	010_010
Isobutane	ND	1.68	1.75	ND	1.95	1.05	2.00	1.72	1.75
N-Butane	ND	9.84	10.07	ND	10.85	7.78	11.02	9.94	10.03
3-Methyl-1-butene	ND	0.36	0.36	ND	0.36	0.34	0.36	0.36	0.36
Isopentane	ND	32.29	32.45	ND	33.02	31.68	33.08	32.58	32.49
N-Pentane	ND	7.43	7.44	ND	7.48	7.42	7.59	7.44	7.49
Trans-2-pentene	ND	1.12	1.19	ND	1.10	1.21	1.05	1.13	0.99
2,3-Dimethylbutane	ND	1.78	1.77	ND	1.76	1.88	1.74	1.79	1.77
2-Methylpentane	ND	5.44	5.42	ND	5.31	5.79	5.27	5.43	5.42
3-Methylpentane	ND	3.16	3.15	ND	3.08	3.38	3.05	3.15	3.15
N-hexane & DIPE	ND	21.85	21.61	ND	20.83	23.31	20.87	21.80	21.75
Methylcyclopentane	ND	1.42	1.41	ND	1.37	1.53	1.35	1.40	1.40
2,4-Dimethylpentane	ND	1.23	1.22	ND	1.18	1.33	1.17	1.20	1.23
Benzene	<LOQ	2.18	2.10	<LOQ	2.05	2.30	2.00	2.15	2.10
2-Methylhexane	ND	1.32	1.31	ND	1.26	1.43	1.23	1.28	1.34
2,3-Dimethylpentane	ND	1.37	1.36	ND	1.31	1.49	1.29	1.32	1.36
3-Methylhexane	ND	1.53	1.52	ND	1.46	1.66	1.43	1.48	1.52
Isooctane	ND	1.72	1.72	ND	1.64	1.88	1.60	1.60	1.72
Toluene	ND	3.11	3.01	ND	2.85	3.28	2.79	3.06	3.00
<b>Total</b>	0.00	98.83	98.86	0.00	98.86	98.74	98.89	98.83	98.87

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-J. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 63**

Compound	Area %								
	Blank Control	TM Standard 1	Spiked Control 1	Sample 1010	Sample 2010	Sample 3010	Sample 4010	TM Standard 2	Spiked Control 2
	011_002	011_003	011_004	011_005	011_006	011_007	011_008	011_009	011_010
Isobutane	ND	1.60	1.69	ND	1.98	1.99	1.97	1.55	1.66
N-Butane	ND	9.51	9.80	ND	10.91	10.88	10.84	9.29	9.69
3-Methyl-1-butene	ND	0.36	0.36	ND	0.37	0.37	0.37	0.34	0.35
Isopentane	ND	32.21	32.47	ND	33.26	33.08	33.00	32.14	32.41
N-Pentane	ND	7.49	7.42	ND	7.60	7.60	7.54	7.63	7.63
Trans-2-pentene	ND	0.93	0.80	ND	0.88	0.92	0.98	0.86	0.86
2,3-Dimethylbutane	ND	1.79	1.80	ND	1.74	1.74	1.74	1.81	1.79
2-Methylpentane	ND	5.48	5.48	ND	5.30	5.30	5.30	5.52	5.47
3-Methylpentane	ND	3.18	3.18	ND	3.07	3.07	3.07	3.21	3.18
N-hexane & DIPE	ND	22.08	21.93	ND	20.77	20.87	20.91	22.14	21.91
Methylcyclopentane	ND	1.43	1.43	ND	1.36	1.37	1.37	1.45	1.43
2,4-Dimethylpentane	ND	1.25	1.24	ND	1.18	1.18	1.18	1.26	1.24
Benzene	<LOQ	2.27	2.19	<LOQ	2.09	2.06	2.09	2.29	2.20
2-Methylhexane	ND	1.37	1.37	ND	1.27	1.29	1.28	1.38	1.37
2,3-Dimethylpentane	ND	1.38	1.38	ND	1.23	1.31	1.30	1.40	1.38
3-Methylhexane	ND	1.54	1.55	ND	1.42	1.39	1.45	1.56	1.54
Isooctane	ND	1.77	1.77	ND	1.62	1.63	1.65	1.78	1.76
Toluene	ND	3.13	3.06	ND	2.77	2.84	2.82	3.19	3.07
<b>Total</b>	0.00	98.77	98.92	0.00	98.82	98.89	98.86	98.80	98.94

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-K. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 70**

Compound	Area %								
	Blank Control 012_002	TM Standard 1 012_003	Spiked Control 1 012_004	Sample 1011 012_005	Sample 2011 012_006	Sample 3011 012_007	Sample 4011 012_008	TM Standard 2 012_009	Spiked Control 2 012_010
Isobutane	ND	1.67	1.77	ND	1.98	1.99	2.03	1.65	1.75
N-Butane	ND	9.71	10.06	ND	10.98	10.90	11.07	9.60	10.00
3-Methyl-1-butene	ND	0.35	0.35	ND	0.38	0.37	0.38	0.36	0.36
Isopentane	ND	32.43	32.67	ND	33.88	33.13	33.59	32.32	32.72
N-Pentane	ND	7.64	7.52	ND	7.83	7.73	7.69	7.58	7.60
Trans-2-pentene	ND	0.85	0.98	ND	0.87	0.87	0.88	0.87	0.88
2,3-Dimethylbutane	ND	1.80	1.78	ND	1.78	1.75	1.75	1.78	1.78
2-Methylpentane	ND	4.98	5.44	ND	4.84	4.81	4.82	5.47	4.95
3-Methylpentane	ND	3.19	3.15	ND	3.09	3.08	3.07	3.17	3.17
N-hexane & DIPE	ND	22.04	21.63	ND	20.60	20.95	20.69	21.90	21.77
Methylcyclopentane	ND	1.44	1.41	ND	1.39	1.37	1.37	1.43	1.42
2,4-Dimethylpentane	ND	1.24	1.20	ND	1.15	1.19	1.17	1.24	1.23
Benzene	<LOQ	2.30	2.19	<LOQ	2.14	2.11	2.06	2.29	2.20
2-Methylhexane	ND	1.33	1.27	ND	1.18	1.30	1.26	1.36	1.32
2,3-Dimethylpentane	ND	1.38	1.32	ND	1.25	1.31	1.28	1.37	1.33
3-Methylhexane	ND	1.54	1.47	ND	1.37	1.46	1.41	1.53	1.53
Isooctane	ND	1.75	1.61	ND	1.55	1.67	1.61	1.77	1.75
Toluene	<LOQ	3.18	3.03	ND	2.63	2.84	2.64	3.13	3.05
<b>Total</b>	<b>0.00</b>	<b>98.82</b>	<b>98.85</b>	<b>0.00</b>	<b>98.89</b>	<b>98.83</b>	<b>98.77</b>	<b>98.82</b>	<b>98.81</b>

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-L. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 77**

Compound	Area %								
	Blank Control 013_002	TM Standard 1 013_003	Spiked Control 1 013_004	Sample 1012 013_005	Sample 2012 013_006	Sample 3012 013_007	Sample 4012 013_008	TM Standard 2 013_009	Spiked Control 2 013_010
Isobutane	ND	1.68	1.76	ND	2.02	1.95	2.00	1.66	1.75
N-Butane	ND	9.76	10.06	ND	10.99	10.72	11.01	9.69	10.02
3-Methyl-1-butene	ND	0.35	0.36	ND	0.37	0.36	0.37	0.36	0.36
Isopentane	ND	32.45	32.68	ND	33.28	33.12	33.56	32.48	32.81
N-Pentane	ND	7.48	7.49	ND	7.53	7.62	7.62	7.63	7.68
Trans-2-pentene	ND	0.96	0.92	ND	0.93	0.90	0.98	0.98	0.86
2,3-Dimethylbutane	ND	1.77	1.76	ND	1.74	1.75	1.75	1.80	1.79
2-Methylpentane	ND	5.45	5.42	ND	5.30	4.86	4.82	4.97	4.94
3-Methylpentane	ND	3.16	3.14	ND	3.06	3.10	3.08	3.19	3.16
N-hexane & DIPE	ND	21.74	21.47	ND	20.73	21.13	20.83	21.98	21.71
Methylcyclopentane	ND	1.42	1.41	ND	1.36	1.38	1.37	1.43	1.42
2,4-Dimethylpentane	ND	1.23	1.22	ND	1.16	1.19	1.17	1.22	1.22
Benzene	<LOQ	2.28	2.22	<LOQ	2.12	2.14	2.11	2.30	2.20
2-Methylhexane	ND	1.35	1.34	ND	1.22	1.26	1.21	1.32	1.30
2,3-Dimethylpentane	ND	1.36	1.35	ND	1.28	1.32	1.27	1.38	1.36
3-Methylhexane	ND	1.52	1.51	ND	1.42	1.47	1.41	1.54	1.52
Isooctane	ND	1.75	1.74	ND	1.57	1.69	1.59	1.72	1.72
Toluene	<LOQ	3.11	3.01	ND	2.79	2.90	2.71	3.18	3.02
<b>Total</b>	0.00	98.82	98.86	0.00	98.87	98.86	98.86	98.83	98.84

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-M. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 84**

Compound	Area %								
	Blank Control 014_002	TM Standard 1 014_003	Spiked Control 1 014_004	Sample 1013 014_005	Sample 2013 014_006	Sample 3013 014_007	Sample 4013 014_008	TM Standard 2 014_009	Spiked Control 2 014_010
Isobutane	ND	1.65	1.69	ND	1.95	1.95	1.85	1.59	1.69
N-Butane	ND	9.54	9.68	ND	10.68	10.66	10.36	9.34	9.65
3-Methyl-1-butene	ND	0.35	0.35	ND	0.36	0.37	0.36	0.36	0.36
Isopentane	ND	31.96	31.89	ND	32.75	32.48	32.61	31.73	31.88
N-Pentane	ND	7.44	7.36	ND	7.35	7.44	7.49	7.43	7.42
Trans-2-pentene	ND	1.17	1.22	ND	1.20	1.21	1.23	1.21	1.16
2,3-Dimethylbutane	ND	1.48	1.88	ND	1.41	1.83	1.44	1.92	1.86
2-Methylpentane	ND	5.25	5.23	ND	5.14	5.09	5.15	5.26	5.25
3-Methylpentane	ND	3.20	3.17	ND	3.11	3.08	3.13	3.19	3.18
N-hexane & DIPE	ND	22.49	22.13	ND	21.02	20.84	21.16	21.99	21.81
Methylcyclopentane	ND	1.47	1.45	ND	1.41	1.40	1.43	1.46	1.46
2,4-Dimethylpentane	ND	1.16	1.15	ND	1.10	1.11	1.12	1.24	1.03
Benzene	<LOQ	2.35	2.25	<LOQ	2.21	2.15	2.18	2.34	2.27
2-Methylhexane	ND	1.35	1.33	ND	1.27	1.26	1.29	1.34	1.36
2,3-Dimethylpentane	ND	1.41	1.39	ND	1.34	1.33	1.35	1.39	1.41
3-Methylhexane	ND	1.57	1.55	ND	1.49	1.47	1.50	1.55	1.56
Isooctane	ND	1.72	1.77	ND	1.62	1.66	1.69	1.70	1.73
Toluene	ND	3.25	3.18	ND	3.00	2.94	2.96	3.29	3.23
<b>Total</b>	0.00	98.75	98.58	0.00	98.35	98.05	98.24	98.24	98.22

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.



	Analytical Report	Appendix B
--	-------------------	------------

**Table III-N. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 91**

Compound	Area %								
	Blank Control 015_002	TM Standard 1 015_003	Spiked Control 1 015_004	Sample 1014 015_005	Sample 2014 015_006	Sample 3014 015_007	Sample 4014 015_008	TM Standard 2 015_009	Spiked Control 2 015_010
Isobutane	ND	1.70	1.74	ND	2.00	2.00	1.95	1.66	1.39
N-Butane	ND	9.74	9.93	ND	10.81	10.89	10.67	9.54	8.33
3-Methyl-1-butene	ND	0.35	0.35	ND	0.37	0.37	0.37	0.34	0.31
Isopentane	ND	32.23	32.31	ND	33.04	33.00	32.72	31.92	30.38
N-Pentane	ND	7.43	7.46	ND	7.36	7.40	7.51	7.35	7.30
Trans-2-pentene	ND	1.25	1.27	ND	1.30	1.26	1.10	1.27	1.15
2,3-Dimethylbutane	ND	1.86	1.87	ND	1.84	1.82	1.87	1.91	2.00
2-Methylpentane	ND	5.00	4.99	ND	4.86	4.75	4.88	5.02	5.51
3-Methylpentane	ND	3.20	3.19	ND	3.11	3.11	3.13	3.22	3.36
N-hexane & DIPE	ND	22.02	21.91	ND	21.04	21.13	21.25	22.27	23.34
Methylcyclopentane	ND	1.47	1.46	ND	1.42	1.41	1.43	1.49	1.59
2,4-Dimethylpentane	ND	1.05	1.05	ND	1.00	0.98	1.03	1.03	1.11
Benzene	<LOQ	2.36	2.29	<LOQ	2.22	2.18	2.21	2.39	2.52
2-Methylhexane	ND	1.34	1.33	ND	1.27	1.28	1.29	1.37	1.49
2,3-Dimethylpentane	ND	1.40	1.39	ND	1.33	1.34	1.36	1.43	1.55
3-Methylhexane	ND	1.56	1.56	ND	1.48	1.49	1.52	1.59	1.73
Isooctane	ND	1.70	1.70	ND	1.61	1.61	1.69	1.77	1.94
Toluene	ND	3.31	3.18	ND	2.97	2.97	3.03	3.36	3.63
<b>Total</b>	0.00	98.89	98.90	0.00	98.95	98.91	98.93	98.84	98.53

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-O. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 98**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1015	Sample 2015	Sample 3015	Sample 4015	TM Standard 2	Spiked Control 2
<b>Compound</b>	016_002	016_003	016_004	016_005	016_006	016_007	016_008	016_009	016_010
Isobutane	ND	1.28	1.31	ND	1.60	1.50	1.58	1.31	1.31
N-Butane	ND	9.02	9.24	ND	11.14	10.54	10.79	9.60	9.63
3-Methyl-1-butene	ND	0.24	0.24	ND	0.13	0.13	0.14	0.14	0.14
Isopentane	ND	30.87	30.75	ND	32.86	31.82	32.21	31.51	31.71
N-Pentane	ND	5.04	5.25	ND	5.98	5.26	5.55	6.77	6.75
Trans-2-pentene	ND	1.61	1.78	ND	2.31	1.90	1.91	1.90	2.01
2,3-Dimethylbutane	ND	1.84	1.83	ND	1.71	1.80	1.76	1.81	1.83
2-Methylpentane	ND	5.46	5.41	ND	5.12	5.26	5.25	5.44	5.40
3-Methylpentane	ND	3.42	3.38	ND	3.10	3.28	3.18	3.29	3.27
N-hexane & DIPE	ND	24.59	23.28	ND	20.81	22.56	22.05	23.22	23.06
Methylcyclopentane	ND	1.47	1.47	ND	1.35	1.45	1.39	1.44	1.45
2,4-Dimethylpentane	ND	1.02	1.15	ND	1.08	1.10	1.09	1.14	1.14
Benzene	ND	2.32	2.23	<LOQ	2.11	2.14	2.10	2.27	2.20
2-Methylhexane	ND	1.31	1.29	ND	1.21	1.22	1.21	1.27	1.28
2,3-Dimethylpentane	ND	1.37	1.36	ND	1.28	1.30	1.28	1.34	1.35
3-Methylhexane	ND	1.54	1.56	ND	1.42	1.45	1.44	1.50	1.52
Isooctane	ND	1.67	1.65	ND	1.55	1.55	1.55	1.63	1.64
Toluene	ND	3.15	3.01	ND	2.77	2.76	2.81	3.04	2.98
<b>Total</b>	0.00	97.05	96.02	0.00	97.35	96.84	97.11	98.44	98.49

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-P. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 105**

Compound	Area %								
	Blank Control 017_002	TM Standard 1 017_003	Spiked Control 1 017_004	Sample 1016 017_005	Sample 2016 017_006	Sample 3016 017_007	Sample 4016 017_008	TM Standard 2 017_009	Spiked Control 2 017_010
Isobutane	ND	1.40	1.57	ND	1.92	1.89	1.88	1.46	1.52
N-Butane	ND	8.73	9.37	ND	10.79	10.65	10.60	9.03	9.20
3-Methyl-1-butene	ND	0.33	0.34	ND	0.36	0.36	0.35	0.32	0.33
Isopentane	ND	31.38	31.99	ND	32.89	32.56	32.72	31.77	31.78
N-Pentane	ND	8.35	7.70	ND	7.63	7.63	7.63	7.65	7.61
Trans-2-pentene	ND	0.00 <sup>a</sup>	0.80	ND	0.71	0.80	0.84	0.78	0.81
2,3-Dimethylbutane	ND	1.74	1.39	ND	1.35	1.34	1.38	1.38	1.38
2-Methylpentane	ND	5.41	5.33	ND	5.12	5.18	5.16	5.39	5.39
3-Methylpentane	ND	3.28	3.23	ND	3.08	3.12	3.12	3.26	3.26
N-hexane & DIPE	ND	23.22	22.78	ND	21.68	21.90	21.70	23.30	23.13
Methylcyclopentane	ND	1.48	1.44	ND	1.38	1.39	1.39	1.46	1.46
2,4-Dimethylpentane	ND	1.05	1.02	ND	0.98	0.98	0.97	1.03	1.04
Benzene	<LOQ	2.58	2.43	<LOQ	2.44	2.30	2.41	2.53	2.47
2-Methylhexane	ND	1.41	1.39	ND	1.26	1.30	1.27	1.30	1.36
2,3-Dimethylpentane	ND	1.46	1.44	ND	1.33	1.35	1.34	1.42	1.41
3-Methylhexane	ND	1.63	1.59	ND	1.48	1.49	1.50	1.61	1.60
Isooctane	ND	1.82	1.79	ND	1.60	1.61	1.63	1.75	1.72
Toluene	ND	3.35	3.16	ND	2.86	2.90	2.94	3.25	3.22
<b>Total</b>	0.00	98.52	98.76	0.00	98.86	98.75	98.83	98.69	98.69

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

<sup>a</sup>Trans-2-Pentene co-eluted with n-Pentane

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-Q. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 112**

**Area %**

	Blank Control	TM Standard 1	Spiked Control 1	Sample 1017	Sample 2017	Sample 3017	Sample 4017	TM Standard 2	Spiked Control 2
<b>Compound</b>	018_002	018_003	018_004	018_005	018_006	018_007	018_008	018_009	018_010
Isobutane	ND	1.66	1.79	ND	2.03	1.95	2.05	1.61	1.81
N-Butane	ND	9.95	10.35	ND	11.33	10.93	11.36	9.71	10.45
3-Methyl-1-butene	ND	0.36	0.36	ND	0.36	0.36	0.37	0.35	0.36
Isopentane	ND	33.02	33.24	ND	34.27	33.44	33.96	32.91	33.20
N-Pentane	ND	7.70	7.66	ND	7.87	7.75	7.81	7.75	7.64
Trans-2-pentene	ND	1.09	1.11	ND	0.97	0.91	1.02	0.94	1.02
2,3-Dimethylbutane	ND	1.74	1.71	ND	1.68	1.70	1.10	1.78	1.69
2-Methylpentane	ND	4.97	4.91	ND	4.83	4.82	4.84	5.00	4.90
3-Methylpentane	ND	3.21	3.18	ND	3.09	3.11	3.11	3.22	3.15
N-hexane & DIPE	ND	22.00	21.72	ND	20.67	21.24	21.30	22.22	21.70
Methylcyclopentane	ND	1.41	1.39	ND	1.35	1.36	1.35	1.41	1.38
2,4-Dimethylpentane	ND	0.99	0.98	ND	0.90	0.96	0.95	1.00	0.98
Benzene	<LOQ	2.44	2.35	<LOQ	2.31	2.21	2.20	2.43	2.32
2-Methylhexane	ND	1.29	1.28	ND	1.13	1.23	1.22	1.28	1.25
2,3-Dimethylpentane	ND	1.35	1.32	ND	1.18	1.28	1.27	1.35	1.30
3-Methylhexane	ND	1.49	1.47	ND	1.29	1.43	1.40	1.49	1.44
Isooctane	ND	1.62	1.59	ND	1.37	1.54	1.53	1.61	1.57
Toluene	ND	2.77	2.66	ND	2.44	2.80	2.74	3.02	2.82
<b>Total</b>	0.00	99.06	99.07	0.00	99.07	99.02	99.58	99.08	98.98

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

**Table III-R. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 119**

Area %									
	Blank Control	TM Standard 1	Spiked Control 1	Sample 1018	Sample 2018	Sample 3018	Sample 4018	TM Standard 2	Spiked Control 2
Compound	019_002	019_003	019_004	019_005	019_006	019_007	019_008	019_009	019_010
Isobutane	ND	1.65	1.73	ND	1.96	1.94	1.99	1.65	1.70
N-Butane	ND	9.82	10.11	ND	10.99	10.95	11.10	9.87	10.06
3-Methyl-1-butene	ND	0.35	0.36	ND	0.36	0.36	0.35	0.33	0.35
Isopentane	ND	32.88	33.02	ND	33.65	33.47	33.56	32.94	33.09
N-Pentane	ND	7.66	7.63	ND	7.76	7.67	7.67	7.59	7.39
Trans-2-pentene	ND	1.05	1.10	ND	1.00	1.05	1.08	1.16	1.10
2,3-Dimethylbutane	ND	1.82	1.81	ND	1.68	1.78	1.74	1.82	1.79
2-Methylpentane	ND	4.95	4.97	ND	4.89	4.86	4.84	5.00	4.98
3-Methylpentane	ND	3.21	3.18	ND	3.12	3.12	3.09	3.20	3.21
N-hexane & DIPE	ND	22.20	22.03	ND	21.34	21.34	21.25	22.19	22.13
Methylcyclopentane	ND	1.42	1.39	ND	1.35	1.36	1.34	1.40	1.41
2,4-Dimethylpentane	ND	0.99	0.98	ND	0.95	0.95	0.94	0.99	1.00
Benzene	<LOQ	2.44	2.35	<LOQ	2.35	2.23	2.21	2.42	2.37
2-Methylhexane	ND	1.28	1.26	ND	1.21	1.23	1.22	1.28	1.29
2,3-Dimethylpentane	ND	1.33	1.31	ND	1.26	1.27	1.25	1.33	1.33
3-Methylhexane	ND	1.48	1.47	ND	1.38	1.41	1.41	1.49	1.49
Isooctane	ND	1.61	1.58	ND	1.50	1.51	1.51	1.60	1.61
Toluene	ND	2.84	2.64	ND	2.34	2.52	2.45	2.75	2.69
<b>Total</b>	<b>0.00</b>	<b>98.98</b>	<b>98.92</b>	<b>0.00</b>	<b>99.09</b>	<b>99.02</b>	<b>99.00</b>	<b>99.01</b>	<b>98.99</b>

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

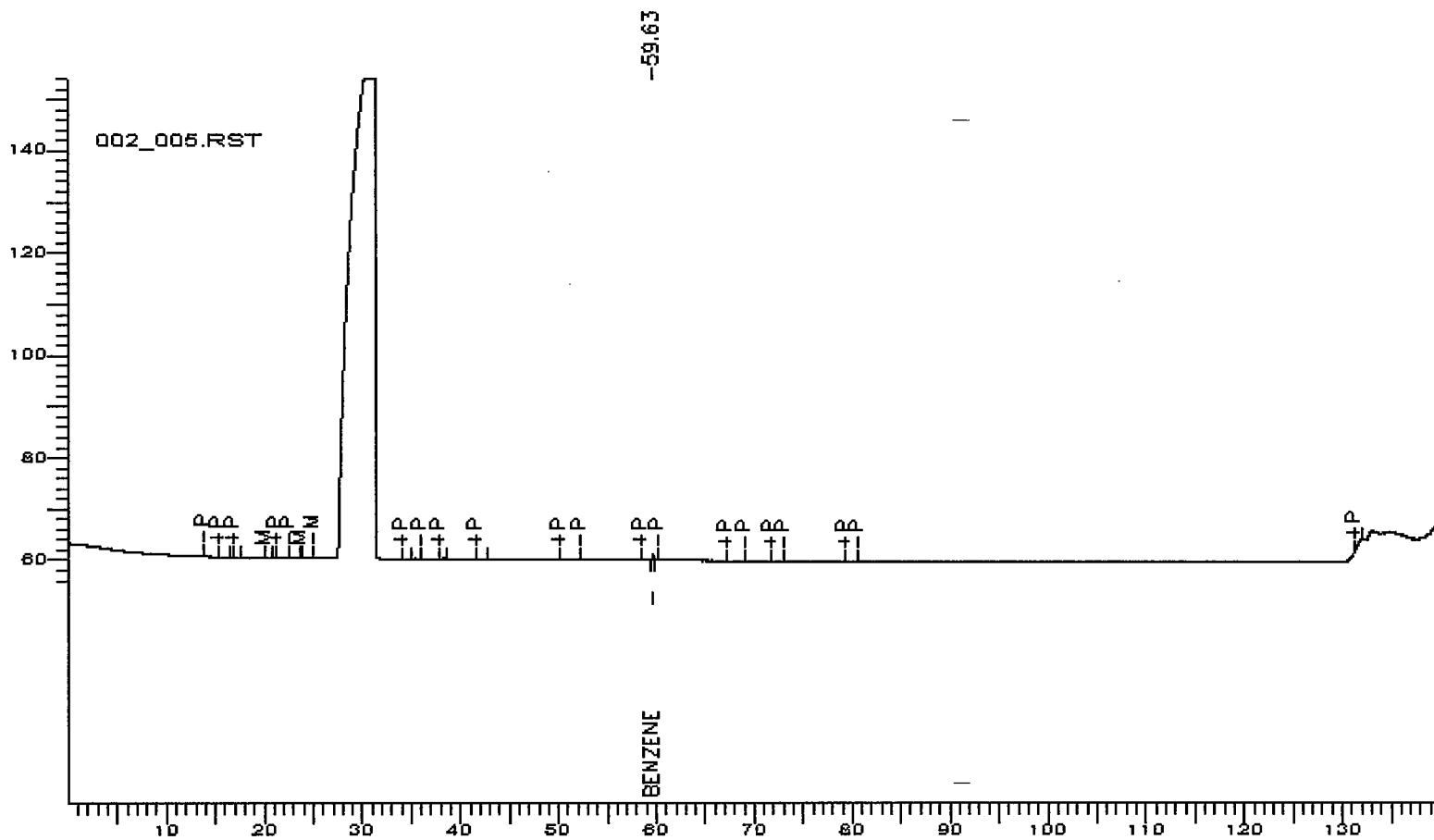
**Table III-S. Chamber Components Confirmation  
Area Percent of Gasoline DIPE Vapor Condensate  
Exposure 126**

	Area %					
	Blank Control	TM Standard 1	Spiked Control 1	Sample 4019	TM Standard 2	Spiked Control 2
Compound	020_002	020_003	020_004	020_005	020_006	020_007
Isobutane	ND	1.67	1.73	1.96	1.67	1.77
N-Butane	ND	9.95	10.13	11.05	9.95	10.29
3-Methyl-1-butene	ND	0.36	0.36	0.37	0.35	0.35
Isopentane	ND	32.81	32.93	33.64	32.98	33.11
N-Pentane	ND	7.52	7.59	7.47	7.21	7.24
Trans-2-pentene	ND	1.25	1.18	1.16	1.16	1.17
2,3-Dimethylbutane	ND	1.76	1.77	1.74	1.78	1.78
2-Methylpentane	ND	4.93	4.97	4.82	4.99	4.93
3-Methylpentane	ND	3.19	3.17	3.09	3.19	3.17
N-hexane & DIPE	ND	22.19	22.01	21.27	22.28	22.01
Methylcyclopentane	ND	1.40	1.39	1.36	1.41	1.40
2,4-Dimethylpentane	ND	0.99	0.98	0.95	1.00	0.99
Benzene	<LOQ	2.41	2.34	2.22	2.43	2.32
2-Methylhexane	ND	1.27	1.27	1.20	1.28	1.28
2,3-Dimethylpentane	ND	1.33	1.32	1.26	1.33	1.33
3-Methylhexane	ND	1.47	1.47	1.39	1.49	1.48
Isooctane	ND	1.59	1.60	1.50	1.61	1.60
Toluene	ND	2.77	2.66	2.45	2.77	2.68
<b>Total</b>	0.00	98.86	98.87	98.90	98.88	98.90

ND = none detected. <LOQ = Less than the limit of quantification = less than 25% of the area count of the component in the test substance standard.

	Analytical Report	Appendix B
--	-------------------	------------

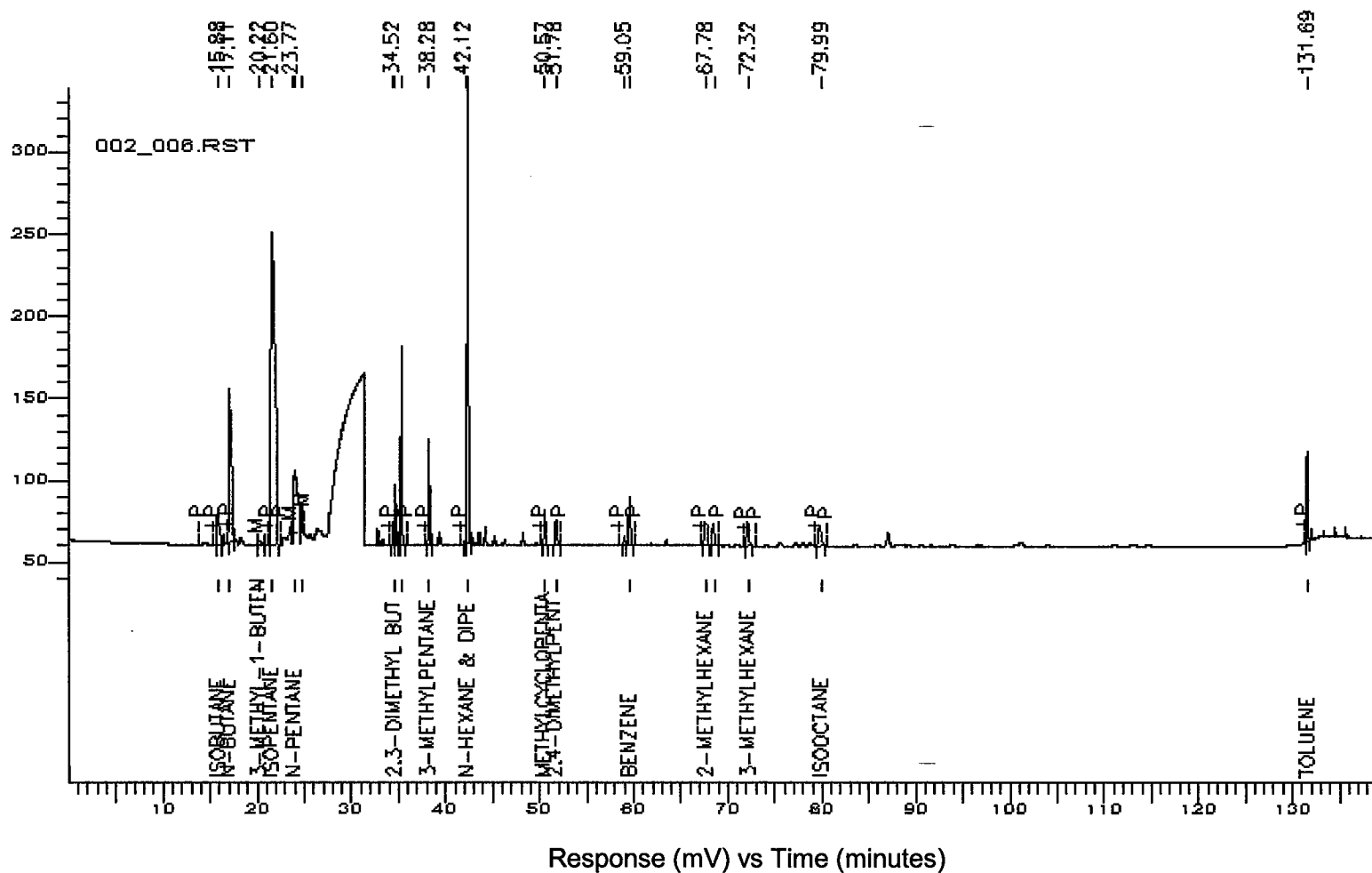
Figure I. Typical Gas Chromatogram of Group I Charcoal Tube Sample



Response (mV) vs Time (minutes)

	Analytical Report	Appendix B
--	-------------------	------------

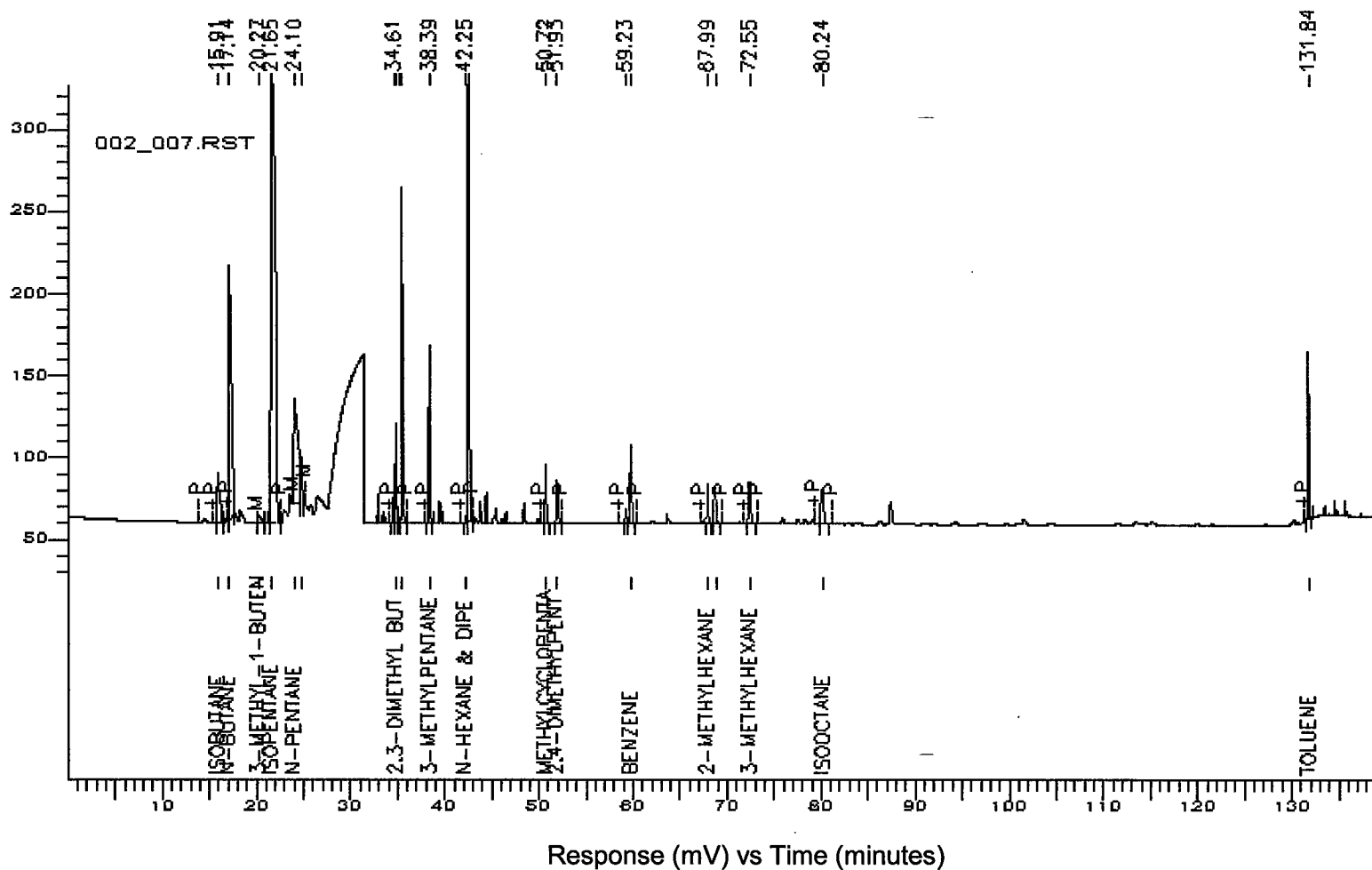
Figure II. Typical Gas Chromatogram of Group II Charcoal Tube Sample





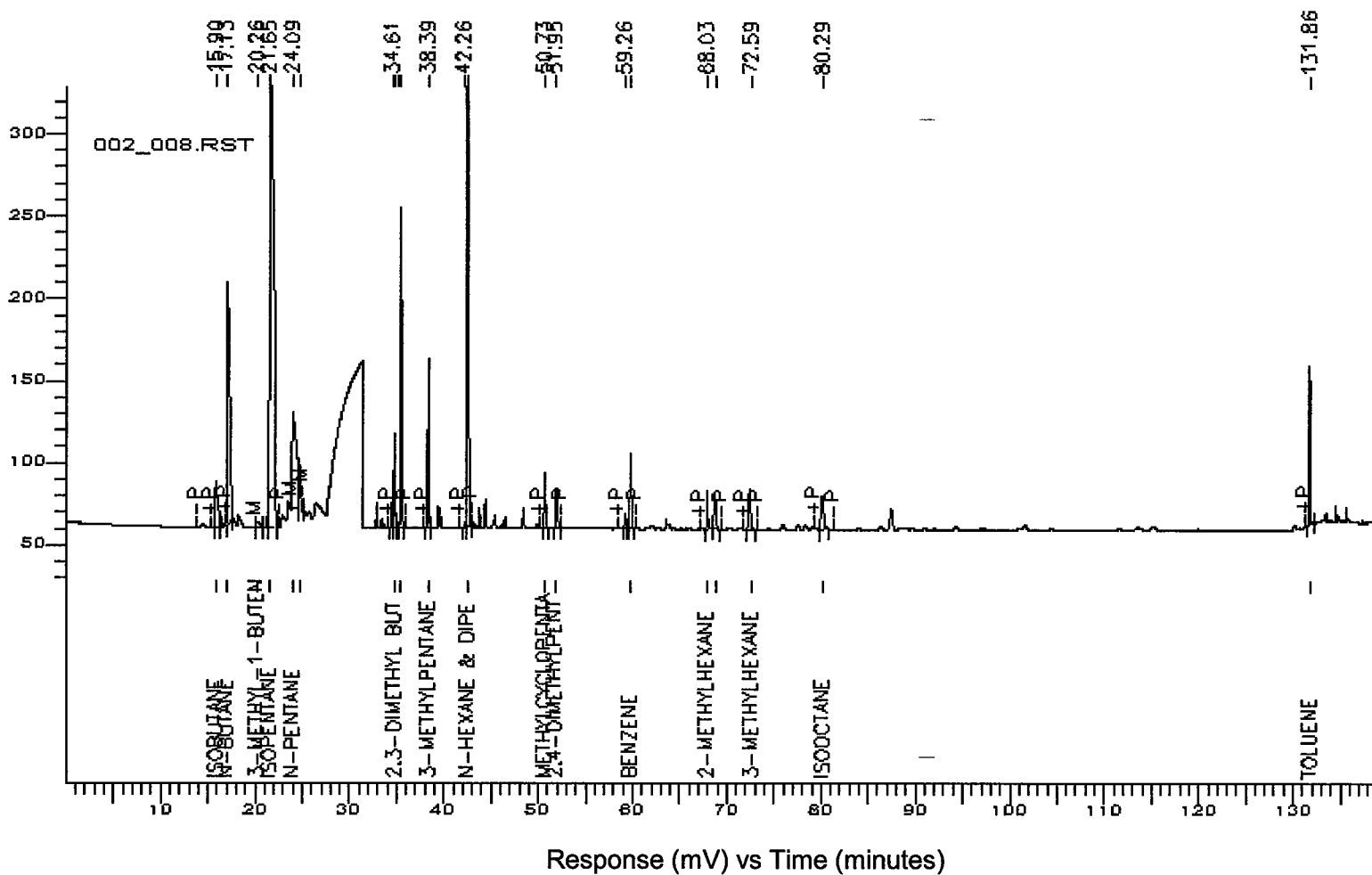
	Analytical Report	Appendix B
--	-------------------	------------

Figure III. Typical Gas Chromatogram of Group III Charcoal Tube Sample



	Analytical Report	Appendix B
--	-------------------	------------

Figure IV. Typical Gas Chromatogram of Group IV Charcoal Tube Sample



## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES      GROUP I      0 MG/M3

---

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
1026	TERMINAL SACRIFICE	10-SEP-02	113
1027	TERMINAL SACRIFICE	10-SEP-02	113
1028	TERMINAL SACRIFICE	10-SEP-02	113
1029	TERMINAL SACRIFICE	10-SEP-02	113
1030	TERMINAL SACRIFICE	10-SEP-02	113
1031	TERMINAL SACRIFICE	10-SEP-02	113
1032	TERMINAL SACRIFICE	10-SEP-02	113
1033	TERMINAL SACRIFICE	10-SEP-02	113
1034	TERMINAL SACRIFICE	10-SEP-02	113
1035	TERMINAL SACRIFICE	10-SEP-02	113
1036	TERMINAL SACRIFICE	10-SEP-02	113
1037	TERMINAL SACRIFICE	10-SEP-02	113
1038	TERMINAL SACRIFICE	10-SEP-02	113
1039	TERMINAL SACRIFICE	11-SEP-02	114
1040	TERMINAL SACRIFICE	11-SEP-02	114
1041	TERMINAL SACRIFICE	11-SEP-02	114
1042	TERMINAL SACRIFICE	11-SEP-02	114
1043	TERMINAL SACRIFICE	11-SEP-02	114
1044	TERMINAL SACRIFICE	11-SEP-02	114
1045	TERMINAL SACRIFICE	11-SEP-02	114
1046	TERMINAL SACRIFICE	11-SEP-02	114
1047	TERMINAL SACRIFICE	11-SEP-02	114
1048	TERMINAL SACRIFICE	11-SEP-02	114
1049	TERMINAL SACRIFICE	11-SEP-02	114
1050	TERMINAL SACRIFICE	11-SEP-02	114
1051	TERMINAL SACRIFICE	11-SEP-02	114

---

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES      GROUP II      2000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
2026	TERMINAL SACRIFICE	10-SEP-02	113
2027	TERMINAL SACRIFICE	10-SEP-02	113
2028	TERMINAL SACRIFICE	10-SEP-02	113
2029	TERMINAL SACRIFICE	10-SEP-02	113
2030	TERMINAL SACRIFICE	10-SEP-02	113
2031	TERMINAL SACRIFICE	10-SEP-02	113
2032	TERMINAL SACRIFICE	10-SEP-02	113
2033	TERMINAL SACRIFICE	10-SEP-02	113
2034	TERMINAL SACRIFICE	10-SEP-02	113
2035	TERMINAL SACRIFICE	10-SEP-02	113
2036	TERMINAL SACRIFICE	10-SEP-02	113
2037	TERMINAL SACRIFICE	10-SEP-02	113
2038	TERMINAL SACRIFICE	10-SEP-02	113
2039	TERMINAL SACRIFICE	11-SEP-02	114
2040	TERMINAL SACRIFICE	11-SEP-02	114
2041	TERMINAL SACRIFICE	11-SEP-02	114
2042	TERMINAL SACRIFICE	11-SEP-02	114
2043	TERMINAL SACRIFICE	11-SEP-02	114
2044	TERMINAL SACRIFICE	11-SEP-02	114
2045	TERMINAL SACRIFICE	11-SEP-02	114
2046	TERMINAL SACRIFICE	11-SEP-02	114
2047	TERMINAL SACRIFICE	11-SEP-02	114
2048	TERMINAL SACRIFICE	11-SEP-02	114
2049	TERMINAL SACRIFICE	11-SEP-02	114
2050	TERMINAL SACRIFICE	11-SEP-02	114
2051	TERMINAL SACRIFICE	11-SEP-02	114

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES      GROUP III      10000 MG/M3

ANIMAL#		TYPE OF DEATH	DATE OF DEATH	STUDY DAY
3026		TERMINAL SACRIFICE	10-SEP-02	113
3027		TERMINAL SACRIFICE	10-SEP-02	113
3028		TERMINAL SACRIFICE	10-SEP-02	113
3029		TERMINAL SACRIFICE	10-SEP-02	113
3030		TERMINAL SACRIFICE	10-SEP-02	113
3031		TERMINAL SACRIFICE	10-SEP-02	113
3032		TERMINAL SACRIFICE	10-SEP-02	113
3033		TERMINAL SACRIFICE	10-SEP-02	113
3034		TERMINAL SACRIFICE	10-SEP-02	113
3035		TERMINAL SACRIFICE	10-SEP-02	113
3036		TERMINAL SACRIFICE	10-SEP-02	113
3037		TERMINAL SACRIFICE	10-SEP-02	113
3038		TERMINAL SACRIFICE	10-SEP-02	113
3039		TERMINAL SACRIFICE	11-SEP-02	114
3040		TERMINAL SACRIFICE	11-SEP-02	114
3041		TERMINAL SACRIFICE	11-SEP-02	114
3042		TERMINAL SACRIFICE	11-SEP-02	114
3043	HS	HUMANE SACRIFICE	12-JUN-02	23
3044	DIED	FOUND DEAD	7-SEP-02	110
3045		TERMINAL SACRIFICE	11-SEP-02	114
3046		TERMINAL SACRIFICE	11-SEP-02	114
3047		TERMINAL SACRIFICE	11-SEP-02	114
3048		TERMINAL SACRIFICE	11-SEP-02	114
3049		TERMINAL SACRIFICE	11-SEP-02	114
3050		TERMINAL SACRIFICE	11-SEP-02	114
3051		TERMINAL SACRIFICE	11-SEP-02	114

DIED=FOUND DEAD      HS=HUMANE SACRIFICE

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

MALES      GROUP IV      20000 MG/M3

ANIMAL#	TYPE OF DEATH	DATE OF DEATH	STUDY DAY
4026	TERMINAL SACRIFICE	10-SEP-02	113
4027	TERMINAL SACRIFICE	10-SEP-02	113
4028	TERMINAL SACRIFICE	10-SEP-02	113
4029	TERMINAL SACRIFICE	10-SEP-02	113
4030	TERMINAL SACRIFICE	10-SEP-02	113
4031	TERMINAL SACRIFICE	10-SEP-02	113
4032	TERMINAL SACRIFICE	10-SEP-02	113
4033	TERMINAL SACRIFICE	10-SEP-02	113
4034	TERMINAL SACRIFICE	10-SEP-02	113
4035	TERMINAL SACRIFICE	10-SEP-02	113
4036	TERMINAL SACRIFICE	10-SEP-02	113
4037	TERMINAL SACRIFICE	10-SEP-02	113
4038	TERMINAL SACRIFICE	10-SEP-02	113
4039	TERMINAL SACRIFICE	11-SEP-02	114
4040	TERMINAL SACRIFICE	11-SEP-02	114
4041	TERMINAL SACRIFICE	11-SEP-02	114
4042	TERMINAL SACRIFICE	11-SEP-02	114
4043	TERMINAL SACRIFICE	11-SEP-02	114
4044	TERMINAL SACRIFICE	11-SEP-02	114
4045	TERMINAL SACRIFICE	11-SEP-02	114
4046	TERMINAL SACRIFICE	11-SEP-02	114
4047	TERMINAL SACRIFICE	11-SEP-02	114
4048	TERMINAL SACRIFICE	11-SEP-02	114
4049	TERMINAL SACRIFICE	11-SEP-02	114
4050	TERMINAL SACRIFICE	11-SEP-02	114
4051	TERMINAL SACRIFICE	11-SEP-02	114

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

FEMALES GROUP I 0 MG/M3

ANIMAL#		TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
1526		TERMINAL SACRIFICE	21-SEP-02	124	P
1527		TERMINAL SACRIFICE	18-SEP-02	121	P
1528		TERMINAL SACRIFICE	18-SEP-02	121	P
1529		TERMINAL SACRIFICE	19-SEP-02	122	P
1530		TERMINAL SACRIFICE	20-SEP-02	123	P
1531		TERMINAL SACRIFICE	19-SEP-02	122	P
1532		TERMINAL SACRIFICE	17-SEP-02	120	P
1533		TERMINAL SACRIFICE	18-SEP-02	121	P
1534		TERMINAL SACRIFICE	23-AUG-02	95	NP
1535		TERMINAL SACRIFICE	18-SEP-02	121	P
1536		TERMINAL SACRIFICE	17-SEP-02	120	P
1537		TERMINAL SACRIFICE	17-SEP-02	120	P
1538		TERMINAL SACRIFICE	26-AUG-02	98	NP
1539		TERMINAL SACRIFICE	18-SEP-02	121	P
1540	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
1541		TERMINAL SACRIFICE	18-SEP-02	121	P
1542		TERMINAL SACRIFICE	18-SEP-02	121	P
1543		TERMINAL SACRIFICE	19-SEP-02	122	P
1544		TERMINAL SACRIFICE	20-SEP-02	123	P
1545		TERMINAL SACRIFICE	18-SEP-02	121	P
1546		TERMINAL SACRIFICE	17-SEP-02	120	P
1547		TERMINAL SACRIFICE	18-SEP-02	121	P
1548		TERMINAL SACRIFICE	24-AUG-02	96	NP
1549	TLL	TERMINAL SACRIFICE	22-SEP-02	125	P
1550		TERMINAL SACRIFICE	18-SEP-02	121	P
1551		TERMINAL SACRIFICE	18-SEP-02	121	P

NP-NOT PREGNANT, P-PREGNANT

NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

FEMALES GROUP II 2000 MG/M3

ANIMAL#		TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
2526		TERMINAL SACRIFICE	19-SEP-02	122	P
2527		TERMINAL SACRIFICE	19-SEP-02	122	P
2528		TERMINAL SACRIFICE	18-SEP-02	121	P
2529		TERMINAL SACRIFICE	17-SEP-02	120	P
2530		TERMINAL SACRIFICE	17-SEP-02	120	P
2531		TERMINAL SACRIFICE	19-SEP-02	122	P
2532		TERMINAL SACRIFICE	19-SEP-02	122	P
2533		TERMINAL SACRIFICE	19-SEP-02	122	P
2534		TERMINAL SACRIFICE	18-SEP-02	121	P
2535		TERMINAL SACRIFICE	20-SEP-02	123	P
2536	HS	HUMANE SACRIFICE	6-AUG-02	78	P
2537		TERMINAL SACRIFICE	20-SEP-02	123	P
2538		TERMINAL SACRIFICE	20-SEP-02	123	P
2539		TERMINAL SACRIFICE	19-SEP-02	122	P
2540		TERMINAL SACRIFICE	20-SEP-02	123	P
2541		TERMINAL SACRIFICE	20-SEP-02	123	P
2542		TERMINAL SACRIFICE	18-SEP-02	121	P
2543	PNMD	TERMINAL SACRIFICE	23-SEP-02	126	P
2544	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
2545		TERMINAL SACRIFICE	20-SEP-02	123	P
2546		TERMINAL SACRIFICE	19-SEP-02	122	P
2547		TERMINAL SACRIFICE	17-SEP-02	120	P
2548		TERMINAL SACRIFICE	17-SEP-02	120	P
2549	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
2550		TERMINAL SACRIFICE	18-SEP-02	121	P
2551		TERMINAL SACRIFICE	20-SEP-02	123	P

NP-NOT PREGNANT, P-PREGNANT

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE



## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

FEMALES GROUP III 10000 MG/M3

ANIMAL#		TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
3526	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
3527		TERMINAL SACRIFICE	20-SEP-02	123	P
3528		TERMINAL SACRIFICE	19-SEP-02	122	P
3529		TERMINAL SACRIFICE	19-SEP-02	122	P
3530	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
3531		TERMINAL SACRIFICE	18-SEP-02	121	P
3532		TERMINAL SACRIFICE	19-SEP-02	122	P
3533		TERMINAL SACRIFICE	19-SEP-02	122	P
3534	TLL	TERMINAL SACRIFICE	22-SEP-02	125	P
3535		TERMINAL SACRIFICE	17-SEP-02	120	P
3536		TERMINAL SACRIFICE	18-SEP-02	121	P
3537		TERMINAL SACRIFICE	22-SEP-02	125	P
3538		TERMINAL SACRIFICE	21-SEP-02	124	P
3539		TERMINAL SACRIFICE	21-SEP-02	124	P
3540		TERMINAL SACRIFICE	17-SEP-02	120	P
3541		TERMINAL SACRIFICE	18-SEP-02	121	P
3542		TERMINAL SACRIFICE	20-SEP-02	123	P
3543		TERMINAL SACRIFICE	20-SEP-02	123	P
3544		TERMINAL SACRIFICE	19-SEP-02	122	P
3545		TERMINAL SACRIFICE	18-SEP-02	121	P
3546		TERMINAL SACRIFICE	20-SEP-02	123	P
3547		TERMINAL SACRIFICE	17-SEP-02	120	P
3548		TERMINAL SACRIFICE	20-SEP-02	123	P
3549		TERMINAL SACRIFICE	20-SEP-02	123	P
3550		TERMINAL SACRIFICE	18-SEP-02	121	P
3551		TERMINAL SACRIFICE	20-SEP-02	123	P

NP-NOT PREGNANT, P-PREGNANT

NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS

## APPENDIX C P0 GENERATION

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

## INDIVIDUAL ANIMAL TERMINATION HISTORY

FEMALES GROUP IV 20000 MG/M3

ANIMAL#		TYPE OF DEATH	DATE OF DEATH	STUDY DAY	PREGNANCY STATUS
4526		TERMINAL SACRIFICE	18-SEP-02	121	P
4527		TERMINAL SACRIFICE	24-SEP-02	127	P
4528		TERMINAL SACRIFICE	18-SEP-02	121	P
4529		TERMINAL SACRIFICE	18-SEP-02	121	P
4530	PNMD	TERMINAL SACRIFICE	19-SEP-02	122	P
4531		TERMINAL SACRIFICE	17-SEP-02	120	P
4532		TERMINAL SACRIFICE	20-SEP-02	123	P
4533		TERMINAL SACRIFICE	19-SEP-02	122	P
4534		TERMINAL SACRIFICE	20-SEP-02	123	P
4535		TERMINAL SACRIFICE	19-SEP-02	122	P
4536		TERMINAL SACRIFICE	18-SEP-02	121	P
4537		TERMINAL SACRIFICE	19-SEP-02	122	P
4538	HS	HUMANE SACRIFICE	3-SEP-02	106	P
4539		TERMINAL SACRIFICE	19-SEP-02	122	P
4540		TERMINAL SACRIFICE	18-SEP-02	121	P
4541		TERMINAL SACRIFICE	20-SEP-02	123	P
4542		TERMINAL SACRIFICE	23-SEP-02	126	P
4543	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
4544	NNMD	TERMINAL SACRIFICE	5-SEP-02	108	NP
4545		TERMINAL SACRIFICE	20-SEP-02	123	P
4546		TERMINAL SACRIFICE	19-SEP-02	122	P
4547		TERMINAL SACRIFICE	18-SEP-02	121	P
4548		TERMINAL SACRIFICE	17-SEP-02	120	P
4549		TERMINAL SACRIFICE	21-SEP-02	124	P
4550		TERMINAL SACRIFICE	19-SEP-02	122	P
4551		TERMINAL SACRIFICE	5-SEP-02	108	NP

NP-NOT PREGNANT, P-PREGNANT

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE

	Individual Clinical Observations Preface	Appendix D
--	---	------------

For summarization purposes, descriptive comments [i.e., location of scab(s) and sore(s), etc.] are not presented in this appendix. These data are contained in the study raw data if needed.

Deaths occurring noted between scheduled weekly examinations are presented at the previous interval. The actual day of an animal's death is presented in Appendix C.

Corresponding exposure levels for each group were as follows:

Group I	-	0 mg/m <sup>3</sup>
Group II	-	2,000 mg/m <sup>3</sup>
Group III	-	10,000 mg/m <sup>3</sup>
Group IV	-	20,000 mg/m <sup>3</sup>

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1		
1026	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1027	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1028	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1029	WITHIN NORMAL LIMITS		P	P	P	P	P	P																
	ALOPECIA - EXTREMITIES/SNOUT							2	2	2	2	2	3	3	3	3	2							
	ALOPECIA - GENERAL																				2	2		
1030	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1031	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1032	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1033	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P														
	SWOLLEN PAW(S)																					P	P	P
	RIGHT FORE PAW																							
	ALOPECIA - EXTREMITIES/SNOUT													2	2	2								
	CHROMODACRYORRHEA - BILATERAL																					P	P	
	CHROMODACRYORRHEA - UNILATERAL																							
	INCISORS BROKEN/MISSING														P	P	P	P	P	P	P	P	P	
1034	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1035	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	CHROMODACRYORRHEA - UNILATERAL																						P	
	LACRIMATION - UNILATERAL																						2	

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	
1036	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1037	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1038	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1039	WITHIN NORMAL LIMITS CHROMODACRYORRHEA - UNILATERAL INCISORS MALOCCLUDED		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1040	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1041	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1042	WITHIN NORMAL LIMITS SWOLLEN DIGIT FIRST DIGIT LEFT FORE PAW		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1043	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1044	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1045	WITHIN NORMAL LIMITS ULCERATION - CERVICAL ALOPECIA - EXTREMITIES/SNOUT SCABS CERVICAL AREA		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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY																			
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1	1	1	
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	
1046	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1047	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1048	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1049	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1050	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1051	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1	
2026	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2027	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2028	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2029	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2030	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2031	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2032	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2033	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2034	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2035	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P														
2036	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2037	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2038	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2039	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P								

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1	
2040	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2041	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P					P	P	P	P	P	P	P	P	P
2042	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2043	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P				P	P	P	P	P	P	P	P	P	P
2044	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2045	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2046	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2047	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2048	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2049	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2050	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P	P	P									
2051	WITHIN NORMAL LIMITS		P	P	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



APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	-	1	2	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									
3026	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P														P	P	P	P	P	P				
							2	2	2	2	2	2	2	2	2	2													
3027	WITHIN NORMAL LIMITS INCISORS MALOCCLUDED		P	P	P	P	P	P	P	P	P	P	P	P											P	P	P		
																										P	P	P	P
3028	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3029	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P																				
											2	2	3	3	3	3	3	3	2	2									
3030	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3031	WITHIN NORMAL LIMITS CHROMODACRYORRHEA - UNILATERAL		P	P	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
									P																				
3032	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3033	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3034	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3035	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P																			
3036	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3037	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P																							
											2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1				
3038	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
3039	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
3040	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
3041	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P				P	P	P	P	P	P	P	P	P	P	P	P	P				
							2	2	2																	
3042	WITHIN NORMAL LIMITS CHROMODACRYORRHEA - UNILATERAL INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P							P					
																					P	P	P	P	P	P
3043	WITHIN NORMAL LIMITS HUMANE SACRIFICE CHROMODACRYORRHEA - BILATERAL ORAL SORE		P	P	P	P				P											P					
3044	WITHIN NORMAL LIMITS FOUND DEAD		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			P	
3045	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3046	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3047	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3048	WITHIN NORMAL LIMITS		P	P	P	P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1	1
3049	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3050	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3051	WITHIN NORMAL LIMITS		P	P	P	P	P	P											
	ALOPECIA - EXTREMITIES/SNOUT									2	2	3	3	3	3	3	3	3	3
	ALOPECIA - GENERAL									2	2	2	2	2	2	2	3	3	3

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1	
4026	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4027	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4028	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
							2	2															
4029	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4030	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT INCISORS BROKEN/MISSING INCISORS MALOCCLUDED		P	P	P	P	P	P	P	P	P										P	P	P
														2	2	2						P	
4031	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4032	WITHIN NORMAL LIMITS SCABS CERVICAL		P	P	P					P	P	P	P	P	P	P	P	P	P	P	P	P	P
							P	P	P	P													
4033	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4034	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4035	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT CHROMODACRYORRHEA - BILATERAL INCISORS MALOCCLUDED		P	P	P	P	P																
							2	2	2	3	3	3	3	3	3	3	3						
																						P	P
																						P	P

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1		
4036	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4037	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4038	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4039	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P														
	CHROMODACRYORRHEA - UNILATERAL														P	P	P	P	P	P	P	P		
	LACRIMATION - UNILATERAL																					2		
	INCISORS BROKEN/MISSING																				P	P	P	P
	INCISORS MALOCCLUDED													P		P	P	P	P	P	P	P	P	
4040	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4041	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4042	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4043	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4044	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4045	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P														
	CHROMODACRYORRHEA - UNILATERAL														P							P		
	INCISORS BROKEN/MISSING														P		P	P	P	P	P	P	P	
	INCISORS MALOCCLUDED														P	P	P	P	P	P	P	P	P	
4046	WITHIN NORMAL LIMITS		P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1	1	
ANIMAL#	OBSERVATIONS	DAY OF STUDY	7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
4047	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4048	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P											
4049	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P							
4050	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4051	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1	
1526	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1527	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1528	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1529	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1530	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1531	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1532	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1533	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1534	WITHIN NORMAL LIMITS SWOLLEN DIGIT RIGHT FORE PAW SWOLLEN DIGIT THIRD DIGIT RIGHT FORE PAW		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1535	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1536	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1537	WITHIN NORMAL LIMITS		P	P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY	-	1	2	2	3	4	4	5	6	7	7	8	9	9	0	1	1	
ANIMAL#	OBSERVATIONS	DAY OF STUDY	7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2
1538	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1539	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1540	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1541	WITHIN NORMAL LIMITS CHROMODACRYORRHEA - UNILATERAL LACRIMATION - UNILATERAL INCISORS BROKEN/MISSING		P	P	P	P	P	P	P											
										P	P	P	P	P						
											3	3	3	3						
											P	P	P	P	P					
1542	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1543	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT INCISORS MALOCCLUDED		P	P	P	P	P													
										2	2	2	2	2	3					
											P									
1544	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1545	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1546	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1547	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1548	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1549	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P											
											2	2	2	2	2					

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



APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF STUDY															
			-	1	2	2	3	4	4	5	6	7	7	8	9	9	0
1550	WITHIN NORMAL LIMITS	7 0 7 4 1 8 5 2 9 6 3 0 7 4 1 8 5 2															1 1
1551	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 D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1
2526	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2527	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2528	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P												
2529	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P										
2530	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT INCISORS MALOCCLUDED		P	P	P	P	P															
2531	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2532	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2533	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2534	WITHIN NORMAL LIMITS SWOLLEN DIGIT FOURTH DIGIT RIGHT FORE PAW		P	P	P	P	P	P	P	P	P	P	P	P	P							
2535	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2536	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2537	WITHIN NORMAL LIMITS		P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1
2538	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2539	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P												
2540	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2541	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2542	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2543	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2544	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2545	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2546	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2547	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2548	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2549	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2550	WITHIN NORMAL LIMITS		P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL 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
2551	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1
3526	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3527	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3528	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3529	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3530	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	P
3531	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3532	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3533	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3534	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3535	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3536	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3537	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3538	WITHIN NORMAL LIMITS		P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL CLINICAL OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	OBSERVATIONS	DAY OF 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	1	1
3539	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3540	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3541	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3542	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3543	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3544	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3545	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3546	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3547	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3548	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3549	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3550	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3551	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	ALOPECIA - EXTREMITIES/SNOUT																					2
	ALOPECIA - GENERAL																					2

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

APPENDIX D P0 GENERATION

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

INDIVIDUAL 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	1				
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	1	1
4526	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4527	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4528	WITHIN NORMAL LIMITS ALOPECIA - GENERAL		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4529	WITHIN NORMAL LIMITS INCISORS BROKEN/MISSING INCISORS MALOCCLUDED		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4530	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4531	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4532	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4533	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4534	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4535	WITHIN NORMAL LIMITS ALOPECIA - EXTREMITIES/SNOUT		P	P	P	P	P															
4536	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4537	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4538	WITHIN NORMAL LIMITS		P	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

APPENDIX D P0 GENERATION

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

INDIVIDUAL 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	1				
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	2	1	1
4539	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4540	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4541	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4542	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4543	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4544	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4545	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4546	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4547	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4548	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4549	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4550	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4551	WITHIN NORMAL LIMITS TERMINAL SACRIFICE		P	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



APPENDIX E P0 GENERATION

GASOLINE DIPE 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																							
			0	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	2	2	2	2	2
1526	WITHIN NORMAL LIMITS		P																		P				
1527	WITHIN NORMAL LIMITS		P																		P				
1528	WITHIN NORMAL LIMITS		P																		P				
1529	WITHIN NORMAL LIMITS		P																		P				
1530	WITHIN NORMAL LIMITS		P																		P				
1531	ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL		2								2										2				2
1532	WITHIN NORMAL LIMITS		P								P										P				P
1533	WITHIN NORMAL LIMITS		P								P										P				P
1534	TERMINAL SACRIFICE SWOLLEN DIGIT MISSING DIGIT		P								P										P				P
1535	ALOPECIA - EXTREMITIES/SNOUT WITHIN NORMAL LIMITS		P								P										2				
1536	WITHIN NORMAL LIMITS		P								P										P				P
1537	WITHIN NORMAL LIMITS		P								P										P				P
1538	TERMINAL SACRIFICE WITHIN NORMAL LIMITS		P								P										P				P
1539	WITHIN NORMAL LIMITS		P								P										P				P

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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																								
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2	2
1541	CHROMODACRYORRHEA - UNILATERAL INCISORS BROKEN/MISSING		P																							
1542	WITHIN NORMAL LIMITS		P																							
1543	ALOPECIA - EXTREMITIES/SNOUT		3																							
1544	WITHIN NORMAL LIMITS		P																							
1545	WITHIN NORMAL LIMITS		P																							
1546	WITHIN NORMAL LIMITS		P																							
1547	WITHIN NORMAL LIMITS		P																							
1548	TERMINAL SACRIFICE WITHIN NORMAL LIMITS		P																							P
1549	ALOPECIA - EXTREMITIES/SNOUT		2																							
1550	WITHIN NORMAL LIMITS		P																							
1551	WITHIN NORMAL LIMITS		P																							

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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																								
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2	2
2526	WITHIN NORMAL LIMITS																									
2527	WITHIN NORMAL LIMITS																									
2528	ALOPECIA - EXTREMITIES/SNOUT WITHIN NORMAL LIMITS	2																								
2529	ALOPECIA - EXTREMITIES/SNOUT	2																								
2530	ALOPECIA - EXTREMITIES/SNOUT	3																								
2531	WITHIN NORMAL LIMITS																									
2532	WITHIN NORMAL LIMITS																									
2533	WITHIN NORMAL LIMITS																									
2534	WITHIN NORMAL LIMITS																									
2535	WITHIN NORMAL LIMITS																									
2536	HUMANE SACRIFICE CHROMODACRYORRHEA - BILATERAL INCISORS BROKEN/MISSING DECREASED FECAL VOLUME																									
2537	WITHIN NORMAL LIMITS																									
2538	WITHIN NORMAL LIMITS																									
2539	ALOPECIA - EXTREMITIES/SNOUT	3																								

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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																							
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2
2540	WITHIN NORMAL LIMITS		P							P											P				P
2541	WITHIN NORMAL LIMITS		P							P											P				P
2542	WITHIN NORMAL LIMITS		P							P											P				P
2545	WITHIN NORMAL LIMITS		P							P											P				P
2546	WITHIN NORMAL LIMITS		P							P											P				P
2547	WITHIN NORMAL LIMITS		P							P											P				P
2548	ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL																								2 2
2550	WITHIN NORMAL LIMITS		P							P											P				P
2551	WITHIN NORMAL LIMITS		P							P											P				P

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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																							
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2
3527	WITHIN NORMAL LIMITS		P								P										P				
3528	WITHIN NORMAL LIMITS		P								P										P				
3529	WITHIN NORMAL LIMITS		P								P										P				
3531	WITHIN NORMAL LIMITS		P								P										P				
3532	WITHIN NORMAL LIMITS		P								P										P				
3533	ALOPECIA - EXTREMITIES/SNOUT WITHIN NORMAL LIMITS		P								P													2	
3534	WITHIN NORMAL LIMITS		P								P										P				
3535	WITHIN NORMAL LIMITS		P								P										P				
3536	WITHIN NORMAL LIMITS		P								P										P				
3537	WITHIN NORMAL LIMITS		P								P										P				
3538	WITHIN NORMAL LIMITS		P								P										P				
3539	WITHIN NORMAL LIMITS		P								P										P				
3540	WITHIN NORMAL LIMITS		P								P										P				
3541	WITHIN NORMAL LIMITS		P								P										P				
3542	WITHIN NORMAL LIMITS		P								P										P				
3543	WITHIN NORMAL LIMITS		P								P										P				

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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																								
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2	2
3544	WITHIN NORMAL LIMITS																									
3545	WITHIN NORMAL LIMITS																									
3546	WITHIN NORMAL LIMITS																									
3547	WITHIN NORMAL LIMITS																									
3548	WITHIN NORMAL LIMITS																									
3549	WITHIN NORMAL LIMITS																									
3550	WITHIN NORMAL LIMITS																									
3551	ALOPECIA - EXTREMITIES/SNOUT																									
	ALOPECIA - GENERAL																									

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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	1	1	1	1	1	1	1	2	2	2	2	2
4526	WITHIN NORMAL LIMITS																								
4527	WITHIN NORMAL LIMITS																								
4528	WITHIN NORMAL LIMITS																								
4529	INCISORS MALOCCLUDED																								
4531	WITHIN NORMAL LIMITS																								
4532	WITHIN NORMAL LIMITS																								
4533	WITHIN NORMAL LIMITS																								
4534	WITHIN NORMAL LIMITS																								
4535	ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL			3							3											3			3
4536	WITHIN NORMAL LIMITS																								
4537	WITHIN NORMAL LIMITS																								
4538	WITHIN NORMAL LIMITS																								
4539	WITHIN NORMAL LIMITS																								
4540	WITHIN NORMAL LIMITS																								
4541	WITHIN NORMAL LIMITS																								
4542	WITHIN NORMAL LIMITS																								

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

APPENDIX E P0 GENERATION

GASOLINE DIPE 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	
4545	WITHIN NORMAL LIMITS																												
4546	WITHIN NORMAL LIMITS																												
4547	WITHIN NORMAL LIMITS																												
4548	WITHIN NORMAL LIMITS																												
4549	WITHIN NORMAL LIMITS																												
4550	WITHIN NORMAL LIMITS																												

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



APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																												
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3
1526	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P								P
1527	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P								P
1528	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P								P
1529	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P								P
1530	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P								P
1531	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL				2		2		2						3							3							3	
					2		2		2						3							3							3	
1532	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
1533	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
1535	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT YELLOW ANO-GENITAL STAINING				2		2								P							P							P	
					2		2												2										P	

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																																	
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3				
1536	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																									P		P	
1537	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																									P		P	
1539	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																									P		P	
1541	TERMINAL SACRIFICE CHROMODACRYORRHEA - UNILATERAL INCISORS BROKEN/MISSING			P			P																									P		P	
1542	WITHIN NORMAL LIMITS TERMINAL SACRIFICE EMACIATION			P			P																										P		P
1543	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT																																P		3
1544	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																										P		P
1545	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																										P		P
1546	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																										P		P
1547	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																										P		P

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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	0				
1549	ALOPECIA - EXTREMITIES/SNOUT TERMINAL SACRIFICE			2	2							3							3								3										P
1550	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P						P							P									P
1551	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P		P		P						P							P						P									P

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																													
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	
2526	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2527	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2528	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT				2		2		2													2								2	
2529	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT				2		2		2													2								2	
2530	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT				3		3		3													3								3	
2531	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2532	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2533	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2534	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	
2535	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P														P								P	

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																										
			0	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3
2537	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2538	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2539	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT				3		3		3						3						3						3	
2540	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2541	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2542	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2543	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2545	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2546	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		
2547	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P						P						P						P		

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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	0			
2548	TERMINAL SACRIFICE																																			P
	ALOPECIA - EXTREMITIES/SNOUT				2		2			2																										2
	ALOPECIA - GENERAL				2		2			2																										2
2550	WITHIN NORMAL LIMITS				P		P			P																										P
	TERMINAL SACRIFICE																																			P
	INCISORS BROKEN/MISSING																																		P	
2551	WITHIN NORMAL LIMITS				P		P			P																										P
	TERMINAL SACRIFICE																																			P

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL 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	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	
3527	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3528	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3529	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3531	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3532	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3533	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT				2		2		2						2							2							P	
3534	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P							P								P						P		P	
3535	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3536	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3537	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	
3538	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P							P							P	

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL 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	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	
3539	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3540	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3541	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3542	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3543	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3544	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3545	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3546	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			P																										P
3547	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P
3548	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																							P

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



APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL 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	0							
3549	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P			P																												P		P			
3550	WITHIN NORMAL LIMITS TERMINAL SACRIFICE				P																																P		P	
3551	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL																																					P		P

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

## APPENDIX F P0 GENERATION

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

## INDIVIDUAL MATERNAL CLINICAL 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	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3
4526	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4527	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4528	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4529	TERMINAL SACRIFICE INCISORS MALOCCLUDED			P		P		P							P						P							P	
4530	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4531	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4532	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4533	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4534	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P						P							P	
4535	TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT ALOPECIA - GENERAL				3		3		3						3						3						3		
					3		3		3						3						3						3		

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

APPENDIX F P0 GENERATION

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

INDIVIDUAL MATERNAL CLINICAL 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	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3		
4536	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4537	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4538	WITHIN NORMAL LIMITS HUMANE SACRIFICE INCISORS MALOCCLUDED SWOLLEN SNOUT RED EXUDATE SNOUT			P		P		P							P															P		
4539	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4540	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4541	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4542	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		
4545	WITHIN NORMAL LIMITS TERMINAL SACRIFICE ALOPECIA - EXTREMITIES/SNOUT			P											P															P		
4546	WITHIN NORMAL LIMITS TERMINAL SACRIFICE			P		P		P							P															P		

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



	Individual Body Weights (Premating/Mating/Postmating) Preface	Appendix G
--	---	------------

No data is presented for the following animals at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Day(s)</b>	<b>Reason</b>
3043	28 to 112	Sacrificed for Humane Reasons on Day 23
3044	112	Found Dead on Day 110
1540	112 to 119	Terminal Sacrifice on Day 108
1549	77 to 91	Total Litter Loss on Lactation Day 2, therefore weekly body weights were resumed.
2543	98 to 119	Although no evidence of mating was observed, this female delivered on Day 98. See Lactation Body Weights.
2544	112 to 119	Terminal Sacrifice on Day 108
2549	112 to 119	Terminal Sacrifice on Day 108
3526	112 to 119	Terminal Sacrifice on Day 108
3530	112 to 119	Terminal Sacrifice on Day 108
3534	77 to 91	Total Litter Loss on Lactation Day 1, therefore weekly body weights were resumed.
4530	98 to 119	Although no evidence of mating was observed, this female delivered on Day 94. See Lactation Body Weights.
4543	112 to 119	Terminal Sacrifice on Day 108
4544	112 to 119	Terminal Sacrifice on Day 108
4551	112 to 119	Terminal Sacrifice on Day 108











## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

MALES      GROUP I      0 MG/M3

---

ANIMAL#	DAY OF STUDY	
	105	112

---

1026	574	592
1027	578	590
1028	536	553
1029	507	520
1030	566	572
1031	530	547
1032	595	619
1033	552	555
1034	495	509
1035	521	530
1036	566	588
1037	493	516
1038	563	579
1039	495	500
1040	645	654
1041	660	679
1042	671	682
1043	433	441
1044	603	619
1045	541	553
1046	579	586
1047	515	530
1048	600	614
1049	587	596
1050	576	595
1051	490	501

MEAN	557	570
S.D.	55.9	57.0
N	26	26

## APPENDIX G P0 GENERATION

GASOLINE DIPE 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	
	105	112
2026	498	500
2027	510	511
2028	554	564
2029	571	586
2030	609	625
2031	507	517
2032	482	490
2033	627	637
2034	604	610
2035	498	502
2036	481	489
2037	558	573
2038	530	544
2039	560	569
2040	570	579
2041	597	601
2042	537	544
2043	628	642
2044	650	659
2045	644	660
2046	548	559
2047	582	587
2048	485	489
2049	674	686
2050	592	603
2051	526	537
MEAN	562	572
S.D.	56.0	58.0
N	26	26

## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

MALES      GROUP III      10000 MG/M3

ANIMAL#	DAY OF STUDY	
	105	112
3026	558	573
3027	475	483
3028	607	623
3029	592	605
3030	612	622
3031	511	519
3032	505	509
3033	577	588
3034	578	591
3035	606	623
3036	487	501
3037	557	576
3038	550	565
3039	557	564
3040	633	649
3041	604	615
3042	538	546
3044	518	
3045	465	472
3046	515	545
3047	540	543
3048	539	549
3049	530	542
3050	638	648
3051	625	642
MEAN	557	570
S.D.	49.6	51.6
N	25	24

## APPENDIX G P0 GENERATION

GASOLINE DIPE 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	
	105	112
4026	628	641
4027	502	509
4028	586	599
4029	642	657
4030	577	588
4031	490	503
4032	756	779
4033	522	528
4034	543	552
4035	508	526
4036	589	596
4037	533	544
4038	501	516
4039	538	550
4040	537	548
4041	508	524
4042	585	584
4043	517	519
4044	527	535
4045	566	571
4046	554	567
4047	593	601
4048	634	639
4049	514	527
4050	456	456
4051	540	543
MEAN	555	566
S.D.	61.8	63.8
N	26	26

## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP I 0 MG/M3

ANIMAL#	DAY OF STUDY															
	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
1526	96	145	169	189	207	223	228	241	244	261	262	259				
1527	105	148	174	198	213	231	241	254	260	269	275	277				
1528	110	145	159	187	205	217	215	233	244	245	245	258				
1529	117	154	174	194	214	219	232	245	256	254	263	263				
1530	111	157	186	216	235	255	275	280	296	307	306	313				
1531	115	154	170	188	199	223	235	244	247	247	257	262				
1532	117	165	188	207	242	253	260	281	295	289	288	298				
1533	112	161	183	216	238	256	262	282	287	295	292	295				
1534	109	160	177	214	233	256	264	272	278	286	289	292				
1535	94	145	167	202	219	239	252	261	283	285	295	306				
1536	99	156	187	218	235	256	268	279	276	289	296	306				
1537	103	162	192	213	238	243	259	275	277	275	282	288				
1538	120	177	205	238	262	279	298	302	314	322	328	324				
1539	119	176	203	230	252	273	285	294	296	302	312	312				
1540	122	161	180	195	216	230	237	242	254	261	256	263	264	268	272	271
1541	103	152	180	204	229	246	247	267	279	287	284	297				
1542	104	152	175	203	228	241	242	256	265	272	275	277				
1543	113	151	187	211	229	238	255	272	279	274	293	298				
1544	106	156	182	216	233	253	267	278	287	293	302	304				
1545	114	151	169	188	207	218	223	238	245	248	249	258				
1546	100	142	168	190	211	225	219	238	248	249	260	264				
1547	113	158	180	210	230	245	245	261	266	273	269	283				
1548	102	143	163	184	203	218	218	227	238	243	248	258				
1549	112	147	171	197	214	235	237	255	256	260	270	266				297
1550	109	152	174	199	220	229	236	247	254	262	265	271				
1551	105	151	175	199	218	229	241	187	249	258	265	268				
MEAN	109	155	178	204	224	240	248	258	268	273	278	283	264	268	272	284
S.D.	7.5	8.9	11.2	13.7	15.6	17.0	21.0	24.5	20.3	21.2	21.3	20.6	0.0	0.0	0.0	18.2
N	26	26	26	26	26	26	26	26	26	26	26	26	1	1	1	2

## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY															
	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
2526	100	140	159	187	207	206	229	232	243	253	239	253				
2527	108	150	175	198	220	232	250	259	265	273	280	277				
2528	114	159	184	209	224	242	250	269	273	284	277	291				
2529	117	160	183	202	228	238	253	257	262	272	273	271				
2530	104	147	176	200	218	241	249	253	270	278	276	283				
2531	119	158	187	211	232	238	257	269	278	279	288	292				
2532	121	179	201	222	228	253	254	270	283	284	288	298				
2533	119	167	189	223	252	289	284	301	304	304	319	325				
2534	114	159	189	212	229	255	273	273	285	288	285	300				
2535	111	158	180	202	220	234	246	259	262	266	271	272				
2536	116	146	174	194	215	232	243	253	253	264	260	263				
2537	110	169	186	219	244	252	274	281	292	292	299	302				
2538	112	166	202	236	259	280	304	321	319	338	344	339				
2539	106	156	182	210	232	250	260	261	272	279	282	285				
2540	103	146	175	193	206	226	239	246	242	256	264	259				
2541	113	154	177	141	210	235	254	264	260	273	278	275				
2542	109	158	184	208	227	242	248	261	266	274	271	288				
2543	112	149	172	194	213	215	228	241	248	246	260	267	279	307	334	
2544	93	140	168	192	215	232	243	257	265	273	268	278	278	278	276	282
2545	97	141	171	196	221	229	255	274	276	278	298	295				
2546	96	149	174	196	221	229	239	258	264	270	282	284				
2547	107	146	165	188	203	216	220	235	241	245	245	254				
2548	103	139	165	184	210	223	233	239	253	260	263	268				
2549	121	169	185	216	229	249	260	272	275	281	288	289	289	298	300	303
2550	100	148	183	181	201	208	210	226	230	237	237	248				
2551	105	150	158	216	230	244	263	277	275	295	297	291				
MEAN	109	154	179	201	223	238	251	262	268	275	278	283	282	294	303	292
S.D.	7.9	10.3	11.0	18.2	14.0	18.9	19.8	20.5	19.7	20.4	23.1	21.0	6.6	14.9	29.0	14.5
N	26	26	26	26	26	26	26	26	26	26	26	26	3	3	3	2

## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY															
	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
3526	109	148	172	204	227	233	256	266	271	280	282	286	280	294	279	292
3527	105	138	169	198	211	238	257	267	269	286	292	281				
3528	122	162	198	230	260	274	303	318	324	324	340	334				
3529	92	139	162	186	204	219	227	242	245	251	259	260				
3530	112	166	190	209	236	252	263	283	291	298	300	303	312	308	306	325
3531	104	146	169	198	219	234	249	261	269	273	274	284				
3532	99	138	163	189	205	211	230	246	249	255	261	264				
3533	95	141	157	190	207	223	242	252	253	268	274	265				
3534	117	157	172	206	225	236	241	261	267	263	271	277				312
3535	105	138	163	176	205	223	231	237	247	253	253	264				
3536	107	139	164	186	195	214	233	241	247	253	252	264				
3537	119	154	164	191	206	216	221	234	238	245	245	258				
3538	114	160	184	218	235	253	260	282	281	296	307	301				
3539	107	155	181	208	233	244	264	279	278	300	297	296				
3540	113	155	181	197	222	240	255	263	276	286	289	290				
3541	120	160	186	209	231	249	262	276	282	292	294	308				
3542	100	138	165	179	204	217	221	243	250	267	270	274				
3543	102	154	173	194	212	224	237	244	245	257	260	259				
3544	113	148	173	197	214	209	232	242	246	250	242	255				
3545	116	167	201	224	242	245	251	267	272	287	277	294				
3546	116	161	190	211	234	249	268	279	286	290	301	297				
3547	109	141	172	188	211	214	228	237	241	244	249	248				
3548	101	154	186	212	234	251	262	264	279	284	284	283				
3549	111	148	177	197	214	226	232	251	246	253	262	260				
3550	112	147	170	195	220	225	246	256	259	265	270	273				
3551	103	152	178	196	224	230	248	253	256	273	282	275				
MEAN	109	150	175	199	220	233	247	259	264	273	276	279	296	301	293	310
S.D.	7.8	9.3	11.5	13.2	14.8	16.2	18.4	19.1	19.9	20.3	22.5	20.1	22.6	10.0	19.4	16.7
N	26	26	26	26	26	26	26	26	26	26	26	26	2	2	2	3



## APPENDIX G P0 GENERATION

GASOLINE DIPE 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															
	-7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
4526	109	145	165	192	205	224	230	248	257	259	260	268				
4527	107	146	169	196	208	225	244	254	255	262	266	266				
4528	117	165	182	212	229	249	255	279	287	294	286	304				
4529	110	161	188	209	233	254	258	280	291	295	306	306				
4530	111	153	175	202	217	239	253	265	262	285	286	286	303	325	368	
4531	116	159	182	200	220	232	244	248	273	266	272	278				
4532	118	151	172	192	209	222	237	244	246	248	256	260				
4533	104	146	168	184	200	210	230	234	243	243	251	253				
4534	105	150	171	187	200	211	229	235	237	251	254	252				
4535	120	169	204	228	259	260	278	292	297	295	309	315				
4536	121	176	192	225	248	264	272	286	297	302	300	310				
4537	113	153	186	214	237	243	261	274	281	279	287	291				
4538	94	144	174	201	219	236	247	249	264	276	278	284				
4539	113	141	156	176	185	195	208	224	225	228	233	241				
4540	105	158	188	225	232	275	289	295	304	317	336	341				
4541	114	160	176	199	204	221	232	243	240	253	256	259				
4542	112	146	158	185	195	206	215	230	235	239	236	247				
4543	99	141	163	175	201	219	225	231	245	258	258	263	263	271	287	258
4544	103	147	175	192	218	227	245	258	267	277	287	287	290	306	333	317
4545	102	148	169	191	208	224	237	249	251	264	277	277				
4546	119	164	195	220	236	243	262	278	290	288	303	306				
4547	103	155	181	213	234	255	269	286	299	311	312	332				
4548	93	130	155	174	191	201	210	212	224	231	233	238				
4549	113	154	171	184	203	216	228	231	249	259	256	262				
4550	100	141	157	179	193	198	206	220	224	225	235	237				
4551	107	150	168	194	205	219	230	247	247	248	256	261	263	261	270	279
MEAN	109	152	175	198	215	229	242	253	261	267	273	278	280	291	314	285
S.D.	7.6	10.1	12.5	16.2	18.8	21.1	21.8	23.8	25.3	25.7	27.3	28.7	20.2	29.6	44.5	29.9
N	26	26	26	26	26	26	26	26	26	26	26	26	4	4	4	3

APPENDIX G P0 GENERATION

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

INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP I 0 MG/M3

---

ANIMAL#	DAY OF STUDY		
	105	112	119
1540	282		
1549	294	310	311
MEAN	288	310	311
S.D.	8.6	0.0	0.0
N	2	1	1

---

APPENDIX G P0 GENERATION

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

INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP II 2000 MG/M3

---

ANIMAL#	DAY OF STUDY		
	105	112	119
2544	294		
2549	304		
MEAN	299		
S.D.	7.1		
N	2		

---

## APPENDIX G P0 GENERATION

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

## INDIVIDUAL BODY WEIGHTS (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY		
	105	112	119
3526	295		
3530	333		
3534	306	307	312
MEAN	311	307	312
S.D.	19.8	0.0	0.0
N	3	1	1

APPENDIX G P0 GENERATION

GASOLINE DIPE 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		
	105	112	119
4543	271		
4544	324		
4551	275		
MEAN	290		
S.D.	29.5		
N	3		

---

	Individual Body Weight Gain (Premating/Mating/Postmating) Preface	Appendix H
--	---	------------

No data is presented for the following animals at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Intervals</b>	<b>Reason</b>
3043	21-28 through 98-105	Sacrificed for Humane Reasons on Day 23
3044	105-112 and 0-112	Found Dead on Day 110

Note: Body weight gains for females are presented for the premating period only (Days -7 to 0 through 63-69 and 0-69).

## APPENDIX H P0 GENERATION

GASOLINE DIPE 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															
	-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	98-105
1026	67	58	54	44	33	30	31	25	21	10	11	19	8	5	17	0
1027	66	51	57	39	44	33	27	16	16	22	1	15	15	5	11	10
1028	64	50	44	45	38	26	24	26	16	15	6	11	10	6	8	9
1029	60	55	46	35	35	27	26	15	20	18	2	3	12	3	10	7
1030	77	57	53	42	30	25	28	20	12	7	15	4	19	1	19	9
1031	63	57	56	43	20	35	15	15	24	15	13	-1	-8	14	17	7
1032	76	55	53	54	9	35	31	18	18	8	23	-3	19	5	16	12
1033	82	48	46	32	40	35	22	21	24	-19	-8	20	28	11	9	18
1034	56	49	45	38	27	24	23	18	18	18	9	16	7	2	16	-3
1035	66	44	44	43	24	30	25	17	11	14	11	8	21	1	11	14
1036	77	61	61	44	21	24	33	19	13	13	7	10	9	12	25	-8
1037	67	52	48	36	25	26	24	15	7	19	14	2	13	2	12	-1
1038	70	51	52	34	36	21	27	15	27	8	10	17	14	10	11	8
1039	65	44	50	37	30	29	32	5	23	-1	8	11	9	13	6	2
1040	77	64	60	50	40	38	34	21	32	8	25	8	14	8	17	13
1041	73	60	70	52	46	42	24	23	6	22	30	16	10	7	19	11
1042	70	58	63	50	42	33	32	17	34	16	17	13	27	18	18	11
1043	62	47	42	27	9	17	17	20	9	11	13	4	2	4	14	5
1044	83	59	59	47	35	30	28	19	9	25	15	10	9	15	14	12
1045	63	49	44	42	21	26	22	16	21	9	20	6	18	6	9	8
1046	78	62	45	41	11	30	34	21	13	14	21	-6	22	9	22	10
1047	57	46	47	49	26	32	15	26	14	10	16	-3	11	5	6	18
1048	57	61	56	26	32	40	35	21	23	31	-1	17	2	16	19	6
1049	68	52	57	35	35	28	28	15	23	26	11	14	15	12	13	7
1050	73	56	54	45	22	24	-83 <sup>a</sup>	101	29	15	17	22	20	2	13	4
1051	62	53	37	38	37	20	15	17	12	16	6	38	-18	2	13	6
MEAN	68	54	52	41	30	29	22	22	18	13	12	10	12	7	14	8
S.D.	7.8	5.7	7.6	7.2	10.5	6.1	22.2	16.8	7.5	9.5	8.3	9.5	9.9	5.1	4.8	5.9
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

<sup>a</sup>THIS ANIMAL'S WATER VALVE WAS NOTED AS NOT WORKING PROPERLY ON DAY 42. THE VALVE WAS REPAIRED IMMEDIATELY.









## APPENDIX H P0 GENERATION

GASOLINE DIPE 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		
	105-112	0-69	0-112
1026	18	316	383
1027	13	306	374
1028	17	288	349
1029	13	279	326
1030	5	287	344
1031	17	292	337
1032	24	304	377
1033	3	242	330
1034	14	268	320
1035	9	262	326
1036	22	297	368
1037	23	267	316
1038	16	279	355
1039	5	258	303
1040	10	372	442
1041	20	376	458
1042	11	362	459
1043	8	213	249
1044	16	324	401
1045	12	269	327
1046	7	291	354
1047	15	281	332
1048	14	324	396
1049	8	311	380
1050	19	281	361
1051	10	250	302
MEAN	13	292	356
S.D.	5.7	38.2	48.5
N	26	26	26

## APPENDIX H P0 GENERATION

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

## INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES      GROUP II      2000 MG/M3

ANIMAL#	DAY OF STUDY		
	105-112	0-69	0-112
2026	2	256	300
2027	1	259	303
2028	10	299	361
2029	16	318	370
2030	16	362	419
2031	10	265	313
2032	8	259	297
2033	10	353	426
2034	7	322	390
2035	5	239	294
2036	8	227	281
2037	16	303	354
2038	14	276	336
2039	9	292	356
2040	9	300	361
2041	4	311	371
2042	8	286	334
2043	14	337	419
2044	10	344	426
2045	16	356	422
2046	11	280	347
2047	5	315	387
2048	4	245	294
2049	12	388	460
2050	11	310	387
2051	12	280	346
MEAN	9	299	360
S.D.	4.3	41.2	49.7
N	26	26	26

## APPENDIX H P0 GENERATION

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

## INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES      GROUP III      10000 MG/M3

ANIMAL#	DAY OF STUDY		
	105-112	0-69	0-112
3026	15	313	370
3027	8	245	290
3028	16	339	406
3029	13	302	390
3030	10	360	406
3031	8	272	315
3032	4	264	310
3033	11	299	389
3034	13	303	376
3035	17	306	405
3036	14	242	309
3037	19	282	363
3038	15	291	365
3039	8	283	345
3040	16	338	433
3041	11	324	382
3042	8	267	317
3044		264	
3045	8	227	274
3046	30	236	321
3047	3	291	343
3048	11	284	358
3049	12	254	310
3050	10	360	416
3051	17	336	410
MEAN	12	291	358
S.D.	5.6	37.6	44.5
N	24	25	24

## APPENDIX H P0 GENERATION

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

## INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

MALES      GROUP IV      20000 MG/M3

ANIMAL#	DAY OF STUDY		
	105-112	0-69	0-112
4026	14	331	410
4027	7	260	304
4028	13	318	388
4029	14	356	420
4030	11	320	384
4031	13	235	297
4032	24	408	534
4033	7	273	321
4034	10	285	348
4035	18	222	301
4036	7	308	387
4037	11	266	339
4038	15	262	318
4039	12	258	333
4040	12	276	351
4041	16	257	311
4042	-1	303	375
4043	2	252	295
4044	9	272	314
4045	5	310	361
4046	13	289	358
4047	8	299	381
4048	5	354	416
4049	13	150	321
4050	1	225	270
4051	4	283	339
MEAN	10	284	353
S.D.	5.6	50.6	54.8
N	26	26	26

## APPENDIX H P0 GENERATION

GASOLINE DIPE 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											
	-7-0	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	0-69
1526	49	24	20	18	16	5	13	3	17	1	-3	114
1527	42	26	24	15	18	11	13	6	9	6	2	129
1528	35	14	28	18	12	-2	19	11	1	0	13	112
1529	37	20	20	19	6	13	13	11	-3	9	0	109
1530	47	29	30	19	20	20	5	15	12	-2	7	156
1531	40	15	18	11	24	12	8	4	-1	11	5	108
1532	48	24	19	35	11	7	21	14	-6	-1	10	134
1533	49	22	33	22	18	6	19	6	8	-3	4	134
1534	51	17	37	19	23	9	8	6	8	3	3	132
1535	51	22	35	18	20	13	9	22	2	10	12	161
1536	57	31	31	17	21	13	11	-4	13	7	10	150
1537	59	31	20	26	5	16	16	2	-2	7	6	126
1538	57	28	33	25	17	19	4	12	8	5	-4	147
1539	57	28	27	22	21	13	9	2	6	10	1	137
1540	39	19	14	22	14	6	6	11	8	-5	7	102
1541	49	29	24	25	17	1	20	12	8	-3	12	145
1542	48	23	28	25	14	1	13	9	7	3	2	125
1543	39	35	25	17	9	17	17	8	-6	20	5	147
1544	49	27	33	17	21	14	11	9	6	10	2	149
1545	37	19	19	19	11	5	15	7	3	2	9	107
1546	42	26	22	21	14	-5	19	10	1	11	5	123
1547	45	22	29	21	15	0	15	5	7	-4	14	125
1548	42	20	21	19	15	0	9	11	5	6	10	115
1549	35	25	25	18	20	3	18	1	4	10	-4	119
1550	43	22	25	21	10	7	11	8	8	3	6	119
1551	46	24	25	19	11	12	-54 <sup>a</sup>	62	9	8	3	117
MEAN	46	24	26	20	15	8	10	10	5	5	5	129
S.D.	7.1	5.1	5.8	4.4	5.1	6.8	14.0	11.8	5.5	5.8	5.1	16.4
N	26	26	26	26	26	26	26	26	26	26	26	26

<sup>a</sup>THIS ANIMAL'S WATER VALVE WAS NOTED AS NOT WORKING PROPERLY ON DAY 42. THE VALVE WAS REPAIRED IMMEDIATELY.









	Individual Gestation Body Weights Preface	Appendix I
--	--	------------

No data is presented for the following animal at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Gestation Days</b>	<b>Reason</b>
2536	4 to 20	Sacrificed for Humane Reasons on Gestation Day 1

## APPENDIX I P0 GENERATION

GASOLINE DIPE 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
1526	263	279	284	313	376
1527	266	293	301	324	384
1528	250	264	274	295	330
1529	264	285	295	325	378
1530	303	330	335	367	395
1531	263	285	291	325	377
1532	294	314	314	340	396
1533	295	314	320	353	424
1534x NP	283	307	315	343	327
1535	300	320	324	345	401
1536	297	325	339	373	432
1537	286	312	327	358	430
1538x NP	330	348	349	345	344
1539	309	332	345	372	435
1540xNNMD					
1541	295	315	329	357	419
1542	284	298	305	329	390
1543	289	315	332	357	423
1544	310	334	338	367	423
1545	252	271	280	303	372
1546	253	289	292	324	390
1547	276	296	305	328	375
1548x NP	252	269	277	275	275
1549 TLL	276	293	302	322	387
1550	271	286	296	312	377
1551	256	277	282	299	313
MEAN	280	301	309	336	392
S.D.	19.3	20.7	21.6	24.4	31.2
N	22	22	22	22	22

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX I P0 GENERATION

GASOLINE DIPE 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
2526	257	283	296	329	405
2527	273	290	299	324	363
2528	291	315	325	342	413
2529	270	284	293	321	381
2530	283	304	308	338	400
2531	289	305	311	337	397
2532	291	312	320	346	404
2533	319	351	351	384	449
2534	294	311	320	350	409
2535	273	289	298	328	383
2536	HS	215			
2537	283	310	319	347	372
2538	336	361	376	402	458
2539	285	302	310	335	399
2540	264	277	286	309	359
2541	282	303	313	341	409
2542	285	306	310	342	406
2543xPNMD					
2544xNNMD					
2545	296	326	337	367	426
2546	280	304	320	350	404
2547	251	267	271	298	353
2548	271	285	294	318	376
2549xNNMD					
2550	245	270	282	305	326
2551	307	329	341	365	423
MEAN	280	304	313	340	396
S.D.	24.9	23.5	23.9	24.7	30.7
N	23	22	22	22	22

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE x=EXCLUDED FROM MEAN

## APPENDIX I P0 GENERATION

GASOLINE DIPE 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
3526xNNMD					
3527	279	315	328	358	428
3528	335	367	381	415	471
3529	252	277	287	314	379
3530xNNMD					
3531	282	300	309	327	369
3532	266	284	292	320	373
3533	268	294	303	337	393
3534 TLL	278	298	306	326	332
3535	259	282	288	315	383
3536	262	278	289	312	370
3537	258	287	304	334	358
3538	314	337	349	374	424
3539	298	331	344	370	423
3540	290	316	327	353	377
3541	312	327	338	373	436
3542	280	305	320	355	380
3543	263	279	287	311	381
3544	247	271	279	304	352
3545	293	323	338	358	414
3546	298	317	331	355	429
3547	241	256	263	289	340
3548	284	305	318	345	417
3549	265	280	291	316	389
3550	277	297	303	328	398
3551	283	307	313	342	419
MEAN	278	301	312	339	393
S.D.	22.4	25.0	26.8	28.2	33.6
N	24	24	24	24	24

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX I P0 GENERATION

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

## INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3

ANIMAL#	DAY OF GESTATION				
	0	4	7	14	20
4526	262	289	293	319	365
4527	273	284	319	310	371
4528	282	317	320	347	417
4529	308	338	347	387	462
4530xPNMD					
4531	270	292	307	319	392
4532	253	280	286	315	372
4533	252	272	279	307	345
4534	257	289	301	330	396
4535	307	326	342	373	433
4536	310	325	335	361	428
4537	290	321	337	370	427
4538 HS	276	307	317	354	415
4539	244	258	269	296	345
4540	326	360	372	391	455
4541	262	284	290	320	387
4542	239	257	266	291	320
4543xNNMD					
4544xNNMD					
4545	271	290	298	330	401
4546	310	333	347	386	442
4547	328	357	366	401	470
4548	234	257	261	293	355
4549	265	280	291	319	373
4550	236	252	260	291	359
4551x NP					
MEAN	275	299	309	337	397
S.D.	28.8	32.1	33.7	35.5	41.6
N	22	22	22	22	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

	Individual Gestation Body Weight Gain Preface	Appendix J
--	--	------------

No data is presented for the following animal at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Gestation Days</b>	<b>Reason</b>
2536	0-4 through 14-20 and 0-20	Sacrificed for Humane Reasons on Gestation Day 1



## APPENDIX J P0 GENERATION

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

## INDIVIDUAL GESTATION BODY WEIGHT GAIN (GRAMS)

GROUP I 0 MG/M3

ANIMAL#	DAY OF GESTATION				
	0 - 4	4 - 7	7 - 14	14 - 20	0 - 20
1526	16	5	29	63	113
1527	28	7	23	60	118
1528	13	10	21	35	80
1529	21	11	30	53	114
1530	27	6	32	28	92
1531	22	6	33	53	115
1532	20	1	26	56	103
1533	19	6	33	72	129
1534x NP	25	7	28	-16	44
1535	20	4	21	56	101
1536	28	14	34	59	135
1537	27	14	32	72	145
1538x NP	18	0	-4	-1	14
1539	23	13	28	63	126
1540xNNMD					
1541	20	14	28	62	123
1542	14	7	24	61	106
1543	26	17	25	66	134
1544	24	4	29	56	114
1545	19	9	23	69	120
1546	36	3	33	66	137
1547	20	9	24	47	98
1548x NP	16	8	-2	0	23
1549 TLL	17	9	20	65	111
1550	15	11	16	65	106
1551	21	5	17	14	57
MEAN	22	8	26	56	113
S.D.	5.4	4.2	5.4	14.3	20.0
N	22	22	22	22	22

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX J P0 GENERATION

GASOLINE DIPE 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
2526	26	12	33	76	147
2527	17	9	25	39	90
2528	24	9	18	71	122
2529	15	9	28	60	112
2530	21	4	30	62	117
2531	15	6	26	61	108
2532	21	8	26	58	113
2533	32	0	34	65	130
2534	17	9	31	59	115
2535	16	9	30	55	110
2536	HS				
2537	27	10	28	25	90
2538	25	15	26	56	122
2539	17	8	26	63	114
2540	13	9	23	50	96
2541	21	11	28	68	127
2542	22	3	32	64	121
2543xPNMD					
2544xNNMD					
2545	31	11	30	59	131
2546	24	16	29	55	124
2547	16	4	26	56	102
2548	14	9	24	58	106
2549xNNMD					
2550	25	12	23	20	81
2551	21	12	24	59	116
MEAN	21	9	27	56	113
S.D.	5.3	3.8	3.8	13.2	15.5
N	22	22	22	22	22

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE

HS=HUMANE SACRIFICE

x=EXCLUDED FROM MEAN

## APPENDIX J P0 GENERATION

GASOLINE DIPE 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
3526xNNMD					
3527	36	13	29	71	149
3528	32	14	34	56	136
3529	24	10	27	65	126
3530xNNMD					
3531	19	9	17	42	87
3532	19	7	28	53	107
3533	26	9	34	57	125
3534 TLL	19	9	20	6	54
3535	23	6	27	68	124
3536	17	10	24	57	108
3537	28	17	30	24	100
3538	23	11	26	49	110
3539	33	13	26	53	125
3540	26	11	26	24	87
3541	15	11	35	63	124
3542	25	15	36	25	100
3543	15	8	25	70	118
3544	25	7	26	47	105
3545	31	15	20	56	121
3546	19	14	24	74	131
3547	15	7	26	51	98
3548	21	14	27	71	133
3549	15	11	25	74	124
3550	20	6	25	70	121
3551	24	6	30	77	136
MEAN	23	11	27	54	115
S.D.	6.0	3.2	4.6	18.7	20.4
N	24	24	24	24	24

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX J P0 GENERATION

GASOLINE DIPE 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
4526	27	3	27	46	103
4527	11	35	-10	62	98
4528	35	3	27	70	135
4529	30	9	40	75	153
4530xPNMD					
4531	22	15	13	73	122
4532	27	6	29	56	118
4533	20	7	28	38	93
4534	32	12	29	66	139
4535	19	16	31	60	126
4536	15	10	26	67	118
4537	31	17	33	57	137
4538 HS	31	10	36	61	139
4539	15	11	27	49	102
4540	34	13	19	64	130
4541	22	6	30	67	126
4542	18	9	25	29	81
4543xNNMD					
4544xNNMD					
4545	20	8	33	70	130
4546	24	14	38	56	132
4547	29	10	35	68	142
4548	23	4	32	62	120
4549	15	11	28	54	109
4550	15	8	31	68	123
4551x NP					
MEAN	23	11	28	60	122
S.D.	7.0	6.7	10.2	11.4	17.8
N	22	22	22	22	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

	Individual Maternal Lactation Body Weights Preface	Appendix K
--	--	------------

No data is presented for the following animals at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Lactation Days</b>	<b>Reason</b>
1549	4 to 28	Total Litter Loss on Lactation Day 2, therefore weekly body weights were resumed.
2536	0 to 28	Sacrificed for Humane Reasons on Gestation Day 1.
3534	4 to 28	Total Litter Loss on Lactation Day 1, therefore weekly body weights were resumed.
4538	21 to 28	Sacrificed for Humane Reasons on Lactation Day 14.

## APPENDIX K P0 GENERATION

GASOLINE DIPE 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
1526	288	311	306	322	315	268
1527	299	312	317	340	330	306
1528	263	276	273	290	287	269
1529	303	322	323	331	340	309
1530	343	348	335	351	302	327
1531	275	299	309	318	316	295
1532	316	329	334	358	345	316
1533	326	339	354	366	350	329
1534x NP						
1535	312	259	237	316	315	311
1536	337	346	367	380	351	331
1537	338	349	340	369	374	342
1538x NP						
1539	349	345	350	371	339	339
1540xNNMD						
1541	320	344	360	363	349	335
1542	315	261	236	330	338	300
1543	323	340	344	350	342	311
1544	339	344	343	366	364	344
1545	277	297	301	312	306	284
1546	297	307	317	336	339	304
1547	317	332	321	329	316	291
1548x NP						
1549 TLL	303					
1550	285	303	301	324	310	268
1551	280	292	311	320	324	292
MEAN	309	317	318	340	331	308
S.D.	24.6	28.5	35.4	24.0	21.8	24.1
N	22	21	21	21	21	21

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX K P0 GENERATION

GASOLINE DIPE 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
2526	312	329	333	335	275	303
2527	285	315	309	321	324	291
2528	288	306	326	351	334	330
2529	278	288	305	327	327	292
2530	299	324	326	345	341	291
2531	306	341	334	357	337	321
2532	299	319	320	340	331	309
2533	334	356	356	380	372	366
2534	303	330	329	342	337	326
2535	306	317	313	331	317	299
2536	HS					
2537	315	331	332	343	346	348
2538	360	374	388	392	377	343
2539	307	320	320	336	327	315
2540	284	301	310	316	316	278
2541	313	320	330	346	330	310
2542	307	317	335	345	332	298
2543	PNMD	332	343	363	343	322
2544	xNNMD					
2545	328	358	366	377	366	331
2546	311	335	338	350	335	314
2547	265	278	304	323	309	265
2548	289	296	307	329	333	308
2549	xNNMD					
2550	261	296	307	329	332	293
2551	326	352	347	355	343	327
MEAN	304	323	329	345	334	312
S.D.	22.2	23.4	20.9	19.4	21.0	23.3
N	23	23	23	23	23	23

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE x=EXCLUDED FROM MEAN

## APPENDIX K P0 GENERATION

GASOLINE DIPE 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
3526xNNMD						
3527	316	343	348	357	354	303
3528	369	390	391	411	405	355
3529	291	321	320	328	324	287
3530xNNMD						
3531	285	304	313	330	326	310
3532	299	312	315	342	329	297
3533	292	323	321	352	340	305
3534 TLL	306					
3535	281	276	298	318	315	275
3536	266	295	309	329	328	304
3537	304	319	320	346	330	288
3538	342	339	337	355	347	326
3539	350	350	352	362	374	343
3540	307	316	329	363	359	320
3541	332	349	356	360	351	339
3542	323	334	334	347	354	316
3543	286	294	304	330	333	291
3544	271	297	308	326	322	287
3545	333	333	344	360	355	336
3546	327	347	360	370	366	335
3547	265	270	291	311	308	275
3548	318	340	340	362	376	319
3549	280	300	308	318	322	289
3550	274	305	312	327	329	309
3551	316	330	334	365	355	318
MEAN	306	321	328	346	343	310
S.D.	27.8	27.3	23.4	22.6	23.1	22.3
N	24	23	23	23	23	23

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN



## APPENDIX K P0 GENERATION

GASOLINE DIPE 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
4526	273	302	298	308	312	288
4527	293	295	308	328	327	306
4528	311	320	323	335	350	308
4529	353	356	371	401	388	353
4530 PNMD	274	328	328	340	327	307
4531	323	331	346	360	356	317
4532	282	295	312	337	331	300
4533	282	307	309	327	333	303
4534	301	320	327	349	336	300
4535	318	342	345	360	361	352
4536	323	340	347	372	372	345
4537	330	341	338	360	348	312
4538 HS	319	320	345	362		
4539	271	290	302	316	315	300
4540	355	374	383	390	392	359
4541	299	322	319	349	324	290
4542	277	286	297	321	303	268
4543xNNMD						
4544xNNMD						
4545	307	311	317	344	347	293
4546	328	354	364	401	393	352
4547	372	372	386	399	387	365
4548	258	278	297	302	313	271
4549	297	309	311	316	323	280
4550	252	283	287	318	316	282
4551x NP						
MEAN	304	321	329	348	343	311
S.D.	31.5	27.5	28.2	30.1	28.3	29.9
N	23	23	23	23	22	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

	Individual Maternal Lactation Body Weight Gain Preface	Appendix L
--	--	------------

No data is presented for the following animals at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Lactation Days</b>	<b>Reason</b>
1549	1-4 through 21-28 and 1-28	Total Litter Loss on Lactation Day 2, therefore weekly body weights were resumed.
2536	1-4 through 21-28 and 1-28	Sacrificed for Humane Reasons on Gestation Day 1.
3534	1-4 through 21-28 and 1-28	Total Litter Loss on Lactation Day 1, therefore weekly body weights were resumed.
4538	14-21 through 21-28 and 1-28	Sacrificed for Humane Reasons on Lactation Day 14.

## APPENDIX L P0 GENERATION

GASOLINE DIPE 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
1526	23	-5	17	-7	-47	-19
1527	13	5	23	-10	-24	7
1528	13	-3	17	-3	-18	5
1529	19	2	8	9	-31	6
1530	5	-14	16	-49	25	-16
1531	24	10	10	-2	-21	21
1532	12	5	24	-13	-29	-1
1533	13	15	12	-16	-21	3
1534x NP						
1535	-52	-22	79	-1	-4	-1
1536	9	21	13	-29	-19	-6
1537	11	-9	29	5	-33	3
1538x NP						
1539	-4	5	22	-32	0	-10
1540xNNMD						
1541	23	16	4	-14	-15	14
1542	-53	-25	94	8	-38	-14
1543	17	4	6	-7	-32	-13
1544	5	-1	23	-2	-20	5
1545	21	3	11	-6	-22	7
1546	10	10	19	4	-35	7
1547	15	-11	9	-13	-25	-26
1548x NP						
1549 TLL						
1550	18	-2	23	-14	-42	-17
1551	13	18	9	4	-31	13
MEAN	7	1	22	-9	-23	-1
S.D.	21.1	12.5	22.5	14.2	15.8	12.5
N	21	21	21	21	21	21

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX L P0 GENERATION

GASOLINE DIPE 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
2526	17	4	2	-60	28	-9
2527	31	-7	12	3	-33	6
2528	18	20	24	-16	-4	42
2529	10	18	21	1	-36	14
2530	25	2	18	-4	-50	-8
2531	35	-6	23	-20	-16	16
2532	21	0	21	-10	-22	11
2533	22	0	24	-7	-7	31
2534	27	-1	13	-5	-11	23
2535	12	-4	18	-14	-18	-7
2536 HS						
2537	16	0	11	3	3	33
2538	14	15	4	-15	-34	-17
2539	13	0	16	-9	-12	8
2540	17	9	6	0	-38	-5
2541	7	10	16	-16	-20	-3
2542	10	18	10	-14	-34	-9
2543 PNMD	17	12	20	-20	-21	7
2544xNNMD						
2545	30	8	12	-11	-36	2
2546	24	4	12	-15	-21	3
2547	13	26	19	-14	-44	0
2548	7	11	22	4	-25	19
2549xNNMD						
2550	35	11	22	3	-39	32
2551	27	-6	9	-13	-16	2
MEAN	19	6	15	-11	-22	8
S.D.	8.5	9.1	6.6	13.2	17.3	15.8
N	23	23	23	23	23	23

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE x=EXCLUDED FROM MEAN

## APPENDIX L P0 GENERATION

GASOLINE DIPE 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
3526xNNMD						
3527	28	4	10	-4	-50	-13
3528	21	1	20	-6	-50	-14
3529	30	0	8	-4	-37	-4
3530xNNMD						
3531	19	9	17	-4	-16	25
3532	13	3	27	-14	-32	-2
3533	30	-2	31	-12	-35	13
3534 TLL						
3535	-5	22	20	-4	-40	-6
3536	29	13	20	0	-24	38
3537	15	1	26	-16	-42	-16
3538	-3	-2	19	-9	-21	-16
3539	0	3	10	12	-31	-7
3540	9	13	34	-4	-39	13
3541	17	7	4	-9	-12	7
3542	11	0	12	7	-38	-7
3543	8	10	26	3	-42	5
3544	26	12	18	-5	-35	16
3545	0	10	16	-5	-19	3
3546	20	12	11	-4	-31	7
3547	5	21	20	-3	-32	11
3548	23	0	22	14	-57	1
3549	20	8	10	5	-34	8
3550	31	7	15	2	-20	35
3551	14	4	30	-9	-38	1
MEAN	16	7	18	-3	-34	4
S.D.	11.2	6.7	8.0	7.5	11.3	14.8
N	23	23	23	23	23	23

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX L P0 GENERATION

GASOLINE DIPE 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
4526	29	-3	9	4	-24	15
4527	3	13	20	-1	-22	13
4528	9	3	13	15	-42	-4
4529	3	15	30	-13	-35	0
4530 PNMD	54	0	12	-13	-19	34
4531	7	15	15	-4	-38	-6
4532	13	17	26	-6	-31	18
4533	25	2	18	5	-30	20
4534	19	7	22	-14	-35	-1
4535	23	3	15	1	-10	33
4536	16	7	25	0	-26	22
4537	11	-3	22	-12	-36	-18
4538 HS	1	25	18			
4539	20	12	13	0	-15	30
4540	19	9	7	2	-33	4
4541	22	-2	30	-25	-35	-10
4542	8	11	24	-18	-35	-10
4543xNNMD						
4544xNNMD						
4545	4	5	27	4	-55	-14
4546	26	10	37	-8	-42	24
4547	0	14	13	-13	-22	-6
4548	20	20	5	10	-42	13
4549	13	2	5	8	-43	-16
4550	31	4	31	-2	-34	30
4551x NP						
MEAN	16	8	19	-4	-32	8
S.D.	12.4	7.5	8.9	9.9	10.5	17.1
N	23	23	23	22	22	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

	Individual Feed Consumption (Premating/Mating/Postmating) Preface	Appendix M
--	---	------------

No data is presented for the following animals at the stated intervals for the following reasons:

Animal No.	Day(s)	Reason
3043	28 to 112	Sacrificed for Humane Reasons on Day 23
3044	112	Found Dead on Day 110
1540	112	Terminal Sacrifice on Day 108
1549	91 to 98	Total Litter Loss on Lactation Day 2, therefore weekly feed consumption was resumed.
2543	98 to 112	Although no evidence of mating was observed, this female delivered on Day 98. See Lactation Feed Consumption.
2544	112	Terminal Sacrifice on Day 108
2549	112	Terminal Sacrifice on Day 108
3526	112	Terminal Sacrifice on Day 108
3530	112	Terminal Sacrifice on Day 108
3534	91 to 98	Total Litter Loss on Lactation Day 1, therefore weekly feed consumption was resumed.
4530	98 to 112	Although no evidence of mating was observed, this female delivered on Day 94. See Lactation Feed Consumption.
4543	112	Terminal Sacrifice on Day 108
4544	112	Terminal Sacrifice on Day 108
4551	112	Terminal Sacrifice on Day 108

## APPENDIX M P0 GENERATION

GASOLINE DIPE 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														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
1026	123	108	99	96	84	75	74	70	58	56	55	49	53	46	49
1027	121	98	89	77	70	66	64	58	56	54	50	47	45	47	46
1028	122	98	88	78	72	67	66	61	57	53	55	48	47	46	48
1029	123	102	86	75	69	66	64	61	46	56	51	50	51	52	49
1030	122	99	88	78	71	65	61	59	56	52	49	48	48	47	47
1031	125	101	89	78	69	66	58	58	58	53	52	52	47	47	49
1032	120	100	84	76	58	64	62	58	58	54	55	47	49	48	48
1033	130	97	83	71	71	69	67	63	62	53	35	51	50	49	40
1034	120	96	85	74	69	64	63	59	59	58	53	48	47	45	46
1035	118	93	80	71	64	62	61	59	56	53	53	48	46	50	46
1036	125	103	94	82	67	64	63	61	59	55	52	49	52	46	47
1037	129	105	89	81	72	69	64	BF	58	56	55	51	50	49	52
1038	121	94	85	74	70	64	60	60	60	51	51	48	46	44	47
1039	129	100	87	77	71	67	65	60	59	53	56	52	46	49	46
1040	123	103	92	78	68	65	62	60	57	50	54	47	47	43	41
1041	125	102	92	78	72	66	62	59	56	53	57	46	48	47	47
1042	121	102	93	82	75	70	68	62	60	55	56	51	49	48	47
1043	129	108	89	76	69	71	67	70	64	62	61	53	54	53	55
1044	132	105	93	84	72	69	64	62	51	58	52	49	47	46	49
1045	117	95	89	81	64	65	65	61	59	57	56	49	47	46	46
1046	134	105	96	83	68	65	70	69	64	62	64	58	53	56	50
1047	121	100	93	87	73	70	65	65	62	59	57	49	49	54	52
1048	117	94	87	73	68	67	64	63	57	55	53	49	48	48	47
1049	124	100	89	76	72	70	64	64	61	59	54	52	50	47	46
1050	122	98	IW	81	68	67	27	83	67	59	56	50	52	47	47
1051	127	103	89	80	74	66	65	64	62	57	54	51	50	47	47
MEAN	124	100	89	79	70	67	63	63	59	55	54	50	49	48	47
S.D.	4.6	4.1	4.2	5.3	4.5	2.9	8.0	5.5	4.1	3.2	5.0	2.4	2.5	3.0	3.0
N	26	26	25	26	26	26	26	25	26	26	26	26	26	26	26

BF=Broken Feeder

IW=Invalid Weight: Feed left greater than feed fed weight





## APPENDIX M P0 GENERATION

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

## INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

MALES GROUP III 10000 MG/M3

ANIMAL#	DAY OF STUDY														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
3026	132	100	95	96	80	71	68	64	52	55	54	52	45	47	49
3027	128	101	87	75	75	68	63	60	57	54	51	52	50	50	50
3028	121	98	86	76	69	67	61	61	58	53	54	48	47	45	46
3029	128	99	89	78	70	67	65	63	60	57	54	48	49	50	49
3030	129	100	83	75	69	64	57	57	56	50	50	45	44	43	43
3031	138	108	87	75	71	69	65	SF	59	56	53	49	51	48	48
3032	120	96	85	75	66	66	63	61	54	53	51	49	46	51	49
3033	126	105	90	76	69	67	65	61	57	55	52	54	51	51	49
3034	125	99	89	76	70	70	64	60	58	53	58	49	48	47	48
3035	122	97	85	74	68	66	62	57	54	52	50	49	46	49	50
3036	131	98	86	74	68	67	65	59	58	52	52	48	47	51	50
3037	129	106	91	77	70	68	67	64	59	58	55	50	49	55	53
3038	123	98	85	75	65	67	65	65	59	53	55	50	50	53	50
3039	139	95	84	75	65	68	64	66	52	52	55	49	50	48	45
3040	139	103	90	79	72	67	63	63	50	45	54	50	48	47	47
3041	BF	102	90	77	69	67	66	64	59	54	54	49	49	47	46
3042	126	98	87	73	66	64	62	61	58	54	54	49	50	51	48
3043	133	104	91	39											
3044	121	93	80	71	65	65	61	61	58	54	52	47	46	39	
3045	120	97	85	75	63	66	60	62	56	59	53	52	50	50	47
3046	128	98	83	73	66	67	63	61	57	50	52	48	48	50	48
3047	129	100	87	78	73	68	67	62	58	56	57	52	52	51	47
3048	129	100	87	78	69	66	65	64	60	59	55	48	50	49	46
3049	130	100	86	75	71	70	67	63	60	55	57	50	49	50	46
3050	134	101	90	79	73	70	66	62	55	48	58	49	49	50	46
3051	129	98	87	76	72	71	67	64	56	53	55	49	45	48	47
MEAN	128	100	87	75	69	67	64	62	57	54	54	49	48	49	48
S.D.	5.6	3.4	3.2	8.6	3.7	1.9	2.6	2.3	2.7	3.2	2.2	1.9	2.1	3.2	2.2
N	25	26	26	26	25	25	25	24	25	25	25	25	25	25	24

SF=Spilled Feeder

BF=Broken Feeder

## APPENDIX M P0 GENERATION

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

## INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

MALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
4026	130	99	85	49	65	65	61	59	49	51	52	45	44	45	46
4027	123	95	82	73	68	68	60	59	56	55	51	51	48	49	48
4028	125	100	91	82	SF	73	70	69	57	54	55	50	48	47	45
4029	121	97	84	73	67	65	57	57	54	51	50	47	46	44	43
4030	128	96	83	71	67	63	60	57	53	53	50	45	44	46	46
4031	135	99	85	74	65	64	61	62	57	54	55	47	49	51	47
4032	131	93	84	74	67	64	61	59	57	43	52	46	46	47	44
4033	140	97	87	85	68	66	62	60	57	55	55	49	48	50	48
4034	132	100	88	74	65	62	59	57	59	54	53	48	50	50	48
4035	129	97	83	73	69	65	60	59	53	37	54	53	45	47	51
4036	123	92	84	75	69	64	60	58	57	53	53	47	44	49	46
4037	135	101	84	87	66	62	57	57	56	52	52	50	47	48	48
4038	134	96	88	78	73	68	65	62	58	53	53	47	48	48	47
4039	123	97	75	85	72	67	62	62	61	59	59	54	54	54	50
4040	143	109	88	85	85	73	66	67	55	59	57	53	53	51	51
4041	133	100	86	78	71	68	68	69	62	63	54	51	48	50	49
4042	125	96	85	77	72	66	62	61	58	56	53	46	47	46	46
4043	118	96	82	71	69	62	63	58	57	53	49	46	46	49	45
4044	125	93	82	72	68	66	64	64	58	56	55	50	47	48	47
4045	136	107	91	81	72	68	65	65	62	61	59	51	50	51	40
4046	127	96	85	74	70	68	64	60	54	55	53	47	47	45	43
4047	127	98	83	74	67	59	58	60	58	56	46	47	47	50	47
4048	136	99	91	83	76	68	68	64	59	40	53	49	50	49	45
4049	135	98	87	81	73	68	64	61	59	58	16	53	52	51	50
4050	133	99	89	83	79	69	67	65	60	59	54	53	53	54	50
4051	135	104	88	77	74	70	65	65	61	56	52	49	46	48	45
MEAN	130	98	85	76	70	66	63	61	57	54	52	49	48	49	47
S.D.	6.1	4.0	3.6	7.3	4.7	3.2	3.4	3.7	3.0	5.8	7.8	2.6	2.7	2.5	2.7
N	26	26	26	26	25	26	26	26	26	26	26	26	26	26	26

SF=Spilled Feeder

## APPENDIX M P0 GENERATION

GASOLINE DIPE 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														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
1526	124	96	83	80	79	76	74	73	77	66	63				
1527	121	97	86	80	80	73	72	69	66	63	64				
1528	119	100	99	81	78	78	78	74	70	71	71				
1529	120	98	91	82	81	83	80	74	69	65	65				
1530	124	101	98	89	89	82	75	78	69	57	57				
1531	115	96	89	83	88	82	80	77	68	69	66				
1532	125	99	95	91	82	86	88	85	70	70	66				
1533	132	106	96	86	83	79	80	75	67	63	65				
1534	127	99	98	86	86	78	77	76	65	62	66				
1535	139	107	97	86	84	80	78	78	68	63	62				
1536	131	105	100	91	97	79	80	78	70	65	70				
1537	141	105	95	87	86	82	79	76	71	66	70				
1538	122	99	95	86	84	81	74	71	69	61	62				
1539	136	105	89	82	82	78	71	68	65	60	59				
1540	111	93	93	85	82	62	82	77	71	64	66	57	54	57	
1541	140	110	101	92	87	IW	82	80	72	73	68				
1542	132	106	101	88	83	79	77	75	70	70	61				
1543	134	125	107	93	91	90	82	78	74	68	68				
1544	137	113	108	95	96	85	77	80	71	63	67				
1545	125	108	101	92	84	82	80	78	76	71	71				
1546	140	118	100	96	82	81	78	83	76	74	71				
1547	130	111	104	89	83	78	76	75	71	68	67				
1548	132	105	97	86	79	76	71	72	66	64	64				
1549	99	85	83	76	69	77	68	63	63	63	56			51	110
1550	128	105	102	89	83	81	77	74	72	69	69				
1551	128	102	93	83	79	77	32	105	78	69	65				
MEAN	127	104	96	87	84	80	76	77	70	66	65	57	54	54	110
S.D.	9.8	8.1	6.5	4.9	5.6	5.1	9.9	7.4	3.8	4.2	4.1	0.0	0.0	4.4	0.0
N	26	26	26	26	26	25	26	26	26	26	26	1	1	2	1

IW=Invalid Weight: Feed left greater than feed fed weight

## APPENDIX M P0 GENERATION

GASOLINE DIPE 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														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
2526	135	100	91	86	78	81	74	72	74	64	64				
2527	130	109	92	86	87	81	78	75	SF	69	61				
2528	130	102	94	83	85	82	82	76	75	73	72				
2529	125	94	87	82	78	80	76	73	70	68	61				
2530	137	107	99	93	88	80	80	81	72	69	68				
2531	130	101	89	82	81	80	74	69	67	65	59				
2532	139	97	87	79	81	76	75	73	69	61	62				
2533	129	98	92	85	84	73	69	69	69	70	60				
2534	134	106	93	89	90	88	75	SF	68	72	68				
2535	129	98	85	81	76	76	74	73	68	64	66				
2536	123	96	86	78	80	73	72	69	70	65	61				
2537	139	100	89	84	81	79	73	73	67	64	59				
2538	144	117	101	89	85	79	78	72	70	63	53				
2539	132	102	94	86	79	74	73	70	67	58	57				
2540	138	110	90	82	81	75	70	69	68	67	63				
2541	122	92	52	114	87	80	73	72	72	64	62				
2542	142	100	87	82	80	71	71	66	67	63	65				
2543	132	103	88	82	76	73	73	71	69	68	66	70			
2544	139	114	106	104	100	SF	92	86	83	74	67	64	53	58	
2545	143	110	101	92	79	84	80	79	74	72	67				
2546	153	113	97	89	80	77	76	78	74	69	63				
2547	135	105	91	82	77	72	74	70	66	65	63				
2548	132	103	100	89	83	75	76	76	71	68	69				
2549	136	94	91	82	82	72	71	71	69	65	66	57	53	54	
2550	145	95	97	99	91	SF	90	88	85	80	82				
2551	138	117	108	80	80	79	74	68	72	68	60				
MEAN	135	103	92	87	83	78	76	74	71	67	64	64	53	56	
S.D.	7.2	7.1	10.1	8.1	5.5	4.2	5.5	5.4	4.8	4.6	5.6	6.6	0.4	2.6	
N	26	26	26	26	26	24	26	25	25	26	26	3	2	2	

SF=Spilled Feeder

## APPENDIX M P0 GENERATION

GASOLINE DIPE 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														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
3526	125	98	92	84	78	80	76	74	69	62	61	54	51	51	
3527	125	102	94	83	85	80	76	76	73	65	63				
3528	129	95	92	84	83	85	78	79	70	64	62				
3529	124	102	87	71	72	72	72	65	70	63	64				
3530	135	95	85	82	81	76	75	67	62	61	56	55	57	52	
3531	133	102	91	83	80	79	76	74	69	64	66				
3532	133	107	95	84	89	85	85	83	71	70	69				
3533	134	105	97	81	88	83	82	82	77	64	65				
3534	SF	SF	SF	91	77	77	85	81	61	74	69			57	130
3535	121	100	87	88	83	78	80	77	81	63	68				
3536	130	105	89	85	89	84	82	82	71	94	73				
3537	130	103	107	88	86	83	84	82	76	71	74				
3538	134	103	99	89	83	84	82	73	76	73	67				
3539	135	119	95	88	84	78	79	75	78	68	66				
3540	133	100	92	85	81	79	81	78	69	64	60				
3541	128	100	97	90	83	84	83	74	72	69	67				
3542	133	104	93	90	84	74	83	82	79	69	66				
3543	142	SF	86	86	82	74	72	70	70	63	61				
3544	121	106	92	86	84	83	79	80	74	69	72				
3545	132	SF	99	89	79	77	84	75	82	70	75				
3546	127	SF	89	87	SF	76	77	75	68	63	62				
3547	133	106	96	92	SF	77	80	75	71	65	64				
3548	135	109	96	92	84	76	76	78	69	68	64				
3549	127	109	103	88	85	78	80	73	69	67	64				
3550	129	117	100	91	85	89	85	78	75	69	66				
3551	150	115	101	91	87	85	80	81	80	70	65				
MEAN	131	105	94	86	83	80	80	76	72	68	66	54	54	54	130
S.D.	6.2	6.3	5.6	4.4	4.0	4.2	3.9	4.6	5.3	6.4	4.4	0.4	4.6	3.2	0.0
N	25	22	25	26	24	26	26	26	26	26	26	2	2	3	1

SF=Spilled Feeder

## APPENDIX M P0 GENERATION

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

## INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	DAY OF STUDY														
	0	7	14	21	28	35	42	49	56	63	69	91	98	105	112
4526	125	95	86	79	78	77	77	71	66	65	65				
4527	127	104	91	90	84	80	73	71	71	63	63				
4528	126	94	85	76	78	75	76	70	66	64	65				
4529	145	102	94	92	98	82	93	85	74	89	67				
4530	129	99	92	83	54	77	77	78	74	65	64	59			
4531	120	87	79	78	73	72	67	72	57	63	63				
4532	120	94	86	79	82	78	74	75	72	69	67				
4533	127	95	SF	76	81	79	72	73	69	98	64				
4534	136	101	87	76	80	79	SF	77	74	67	68				
4535	127	96	86	84	75	73	70	69	64	64	60				
4536	124	103	91	81	77	73	73	72	66	60	63				
4537	135	106	91	84	82	76	72	72	68	60	60				
4538	145	114	97	85	86	79	78	82	74	76	65				
4539	118	97	89	80	83	83	79	75	71	76	68				
4540	138	109	100	80	90	78	70	72	73	65	63				
4541	129	SF	108	77	83	77	75	75	77	72	70				
4542	125	102	95	88	88	82	79	72	71	80	SF				
4543	134	97	88	89	79	72	73	75	67	59	66	57	52	52	
4544	134	104	91	88	80	78	75	74	71	63	61	58	58	57	
4545	138	104	92	87	82	77	75	72	73	70	65				
4546	126	97	86	80	76	75	72	69	65	66	56				
4547	142	112	98	88	86	79	75	76	74	68	71				
4548	136	106	92	84	82	73	75	75	69	90	67				
4549	131	89	83	83	80	74	78	76	63	63	64				
4550	130	104	82	80	80	83	75	70	73	70	62				
4551	141	106	100	87	89	82	81	74	79	70	75	60	56	55	
MEAN	131	101	91	83	81	77	75	74	70	70	65	59	56	55	
S.D.	7.6	6.6	6.6	4.6	7.6	3.3	4.9	3.6	4.9	9.9	4.0	1.7	3.0	2.7	
N	26	25	25	26	26	26	25	26	26	26	25	4	3	3	

SF=Spilled Feeder

	Individual Gestation Feed Consumption Preface	Appendix N
--	--	------------

No data is presented for the following animal at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Gestation Days</b>	<b>Reason</b>
2536	0-4 through 14-20 and 0-20	Sacrificed for Humane Reasons on Gestation Day 1



## APPENDIX N P0 GENERATION

GASOLINE DIPE 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	0 - 20
1526	66	70	65	64	67
1527	67	72	68	63	67
1528	74	80	73	64	73
1529	73	74	72	63	71
1530	61	65	69	61	64
1531	78	73	76	62	72
1532	65	75	68	62	67
1533	73	73	72	67	71
1534x NP	69	68	76	57	68
1535	67	67	64	60	65
1536	81	78	78	65	75
1537	79	76	72	61	72
1538x NP	64	58	57	49	57
1539	71	80	68	62	70
1540xNNMD					
1541	69	74	71	65	70
1542	71	76	71	65	71
1543	71	81	73	62	72
1544	77	75	76	59	72
1545	76	80	72	70	75
1546	79	79	77	69	76
1547	69	75	73	72	72
1548x NP	66	69	62	57	63
1549 TLL	68	71	65	61	66
1550	78	79	70	65	73
1551	69	71	66	66	68
MEAN	72	75	71	64	70
S.D.	5.3	4.3	3.9	3.4	3.3
N	22	22	22	22	22

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

## APPENDIX N P0 GENERATION

GASOLINE DIPE 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	0 - 20
2526	78	80	76	60	74
2527	71	71	67	53	65
2528	79	79	73	63	73
2529	71	73	72	62	69
2530	75	75	71	62	71
2531	62	64	65	57	62
2532	63	71	70	61	66
2533	71	70	70	65	69
2534	63	72	70	63	67
2535	63	67	66	61	64
2536	HS				
2537	61	68	69	58	64
2538	67	70	63	55	64
2539	67	63	68	64	65
2540	72	71	70	59	68
2541	81	76	71	61	72
2542	SF	72	73	67	71
2543xPNMD					
2544xNNMD					
2545	77	74	74	66	73
2546	75	88	81	60	76
2547	68	65	66	62	66
2548	78	84	76	66	76
2549xNNMD					
2550	95	88	77	67	82
2551	74	74	66	59	68
MEAN	72	73	71	61	69
S.D.	8.2	7.0	4.4	3.8	4.9
N	21	22	22	22	22

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE  
SF=Spilled Feeder

HS=HUMANE SACRIFICE

x=EXCLUDED FROM MEAN

## APPENDIX N P0 GENERATION

GASOLINE DIPE 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	0 - 20
3526xNNMD					
3527	81	79	72	59	73
3528	73	76	71	BF	74
3529	73	77	72	60	71
3530xNNMD					
3531	72	69	66	52	65
3532	79	85	77	68	77
3533	72	71	70	59	68
3534 TLL	64	80	71	68	71
3535	71	70	67	59	67
3536	71	75	71	66	71
3537	85	96	77	60	79
3538	68	71	66	54	65
3539	75	76	70	59	70
3540	76	75	71	59	70
3541	73	77	72	56	70
3542	76	75	76	62	72
3543	72	70	66	62	68
3544	83	78	72	62	74
3545	83	87	71	64	76
3546	65	73	68	60	66
3547	74	71	76	61	71
3548	71	74	70	67	71
3549	72	71	65	60	67
3550	79	75	70	61	71
3551	77	78	74	68	74
MEAN	74	76	71	61	71
S.D.	5.3	6.2	3.5	4.3	3.7
N	24	24	24	23	24

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

x=EXCLUDED FROM MEAN

BF=Broken Feeder

## APPENDIX N P0 GENERATION

GASOLINE DIPE 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	0 - 20
4526	79	73	72	60	71
4527	67	59	55	58	60
4528	73	66	67	60	66
4529	76	81	73	67	74
4530xPNMD					
4531	72	74	57	60	66
4532	77	79	76	70	75
4533	67	69	67	66	67
4534	89	80	73	66	77
4535	65	74	70	57	66
4536	66	69	64	59	64
4537	74	82	75	60	73
4538 HS	77	80	76	63	74
4539	75	77	75	66	73
4540	76	75	66	61	70
4541	75	73	73	68	72
4542	69	72	68	65	68
4543xNNMD					
4544xNNMD					
4545	67	64	68	64	66
4546	66	72	69	56	66
4547	70	74	72	60	69
4548	75	68	76	60	70
4549	69	78	73	60	70
4550	69	71	71	66	69
4551x NP					
MEAN	72	73	70	62	69
S.D.	5.8	5.9	5.5	3.9	4.1
N	22	22	22	22	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

	Individual Maternal Lactation Feed Consumption Preface	Appendix O
--	--	------------

No data is presented for the following animals at the stated intervals for the following reasons:

<b>Animal No.</b>	<b>Lactation Days</b>	<b>Reason</b>
1549	1-4 through 21-28 and 1-28	Total Litter Loss on Lactation Day 2, therefore weekly feed consumption was resumed.
2536	1-4 through 21-28 and 1-28	Sacrificed for Humane Reasons on Gestation Day 1.
3534	1-4 through 21-28 and 1-28	Total Litter Loss on Lactation Day 1, therefore weekly feed consumption was resumed.
4538	14-21 through 21-28 and 1-28	Sacrificed for Humane Reasons on Lactation Day 14.

## APPENDIX 0 P0 GENERATION

GASOLINE DIPE 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	1 - 28
1526	108	120	146	193	372	188
1527	98	116	143	194	371	184
1528	75	96	123	173	307	155
1529	97	97	129	200	353	175
1530	57	74	98	136	248	122
1531	87	114	140	165	337	168
1532	96	111	142	181	EF	132
1533	104	114	130	173	352	175
1534x NP						
1535	41	IW1	135	164	306	162
1536	96	116	134	177	EF	131
1537	116	118	147	197	EF	144
1538x NP						
1539	76	95	131	177	368	169
1541	106	119	145	181	353	181
1542	65	IW1	153	181	318	179
1543	101	114	139	185	142	136
1544	88	98	134	185	372	176
1545	104	116	146	187	372	185
1546	118	125	145	202	EF	147
1547	72	80	103	137	266	132
1548x NP						
1549 TLL						
1550	85	107	143	177	366	176
1551	91	117	138	175	314	167
MEAN	90	108	135	178	324	161
S.D.	19.6	14.1	13.7	17.3	60.4	20.9
N	21	19	21	21	17	21

NP=NOT PREGNANT TLL=TOTAL LITTER LOSS x=EXCLUDED FROM MEAN  
 EF=Empty Feeder IW1=Invalid Weight: Water access problem

## APPENDIX 0 P0 GENERATION

GASOLINE DIPE 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	1 - 28
2526	92	115	138	201	414	192
2527	114	112	139	190	364	184
2528	85	114	144	172	305	164
2529	94	117	137	187	329	173
2530	105	124	144	202	EF	144
2531	105	117	138	180	343	176
2532	78	98	138	195	348	172
2533	87	104	141	189	EF	130
2534	97	113	139	IW	IW	116
2535	96	103	132	179	419	186
2536	HS					
2537	61	72	88	118	190	106
2538	69	91	104	145	294	141
2539	82	97	123	182	317	160
2540	106	124	140	186	387	189
2541	96	112	133	180	366	177
2542	84	110	132	180	EF	126
2543	PNMD	121	129	151	219	374
2545	79	101	130	164	332	161
2546	98	118	143	205	378	188
2547	98	128	151	177	EF	139
2548	118	125	158	200	EF	150
2550	105	117	151	189	250	163
2551	79	100	129	194	382	177
MEAN	93	111	136	183	341	161
S.D.	15.0	13.4	15.2	21.2	58.2	25.8
N	23	23	23	22	17	23

PNMD=PREGNANT, NO MATING DATE

HS=HUMANE SACRIFICE

EF=Empty Feeder

IW=Invalid Weight: Feed left greater than feed fed weight

## APPENDIX 0 P0 GENERATION

GASOLINE DIPE 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	1 - 28
3527	99	115	128	172	316	166
3528	93	104	125	164	301	158
3529	123	117	147	198	377	192
3531	89	114	140	201	294	168
3532	105	131	147	204	334	184
3533	97	113	140	171	284	161
3534	TLL					
3535	100	103	126	165	276	154
3536	105	128	155	205	332	185
3537	114	128	158	210	406	203
3538	73	94	126	176	317	157
3539	93	146	149	172	392	190
3540	100	92	147	193	EF	133
3541	105	125	145	208	387	194
3542	94	108	142	204	360	182
3543	104	118	141	206	355	185
3544	111	133	153	197	333	185
3545	105	115	148	188	368	185
3546	104	116	135	189	343	177
3547	99	117	140	212	363	186
3548	102	119	150	203	335	182
3549	112	114	152	207	369	191
3550	159	99	146	173	350	186
3551	102	123	148	158	370	180
MEAN	104	116	143	190	344	178
S.D.	15.6	12.8	9.4	17.3	35.3	16.3
N	23	23	23	23	22	23

TLL=TOTAL LITTER LOSS

EF=Empty Feeder



## APPENDIX 0 P0 GENERATION

GASOLINE DIPE 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	1 - 28
4526	92	115	150	186	353	179
4527	93	125	151	192	356	183
4528	96	109	133	172	322	166
4529	79	107	141	168	EF	124
4530 PNMD	107	113	146	IW2	398	191
4531	143	120	137	167	EF	142
4532	113	135	155	253	354	202
4533	89	101	125	162	250	146
4534	99	114	137	195	364	182
4535	92	104	125	180	293	159
4536	101	113	148	193	274	166
4537	86	98	138	191	355	174
4538x HS	119	143	150			137
4539	86	105	121	172	271	151
4540	82	114	140	192	EF	132
4541	121	119	143	195	365	189
4542	93	117	143	201	367	184
4545	84	100	132	174	324	163
4546	82	92	127	165	332	160
4547	82	EF	136	178	EF	132
4548	111	134	134	166	331	175
4549	113	123	146	213	399	199
4550	127	122	160	214	356	196
MEAN	99	113	140	187	337	168
S.D.	16.8	11.2	10.1	21.6	41.8	22.8
N	22	21	22	21	18	22

PNMD=PREGNANT, NO MATING DATE      x=EXCLUDED FROM MEAN      HS=HUMANE SACRIFICE  
 EF=Empty Feeder      IW2=Invalid weight: Weighing error

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE DATA

GROUP I 0 MG/M3

FEMALE#	DAY OF EVALUATION (PRE-COHABITATION PERIOD)																			NUMBER OF DAYS IN STAGE								
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	D	P	E	M	NC	MDE	
1526	/P	E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	14	1	5	1	4	4.3	
1527	D	/E	D	D	D	/E	E	D	D	D	/E	M	D	D	D	/E	E	D	D	/E	D	D	13	0	7	1	4	4.8
1528	D	D	/E	E	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	14	0	6	1	4	4.0	
1529	/M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	14	0	6	1	5	3.8	
1530	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	E	D	D	D	/E	E	M	D	11	0	7	3	4	4.3	
1531	D	/P	E	D	D	D	/P	E	D	D	D	/E	D	D	D	/P	E	D	D	D	/E	13	3	5	0	4	4.8	
1532	D	D	/E	D	D	D	/E	M	D	D	/E	D	/E	D	/E	M	D	D	/E	D	D	13	0	6	2	5	3.2	
1533	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	15	0	5	1	4	4.0	
1534	/E	E	D	D	D	/E	D	D	D	/E	E	E	D	/E	D	D	/E	E	E	E	E	9	0	12	0	4	4.0	
1535	D	D	/E	D	D	D	/E	E	D	D	D	/E	E	D	D	D	/E	E	D	D	D	14	0	7	0	3	5.0	
1536	/E	D	D	D	/E	M	D	D	/E	E	D	D	D	/E	E	D	D	/E	D	D	/E	12	0	8	1	5	4.0	
1537	D	D	D	/E	M	D	D	/E	M	D	D	D	D	/E	D	D	D	/E	M	D	D	14	0	4	3	3	4.7	
1538	D	D	/E	E	D	D	D	/E	E	M	D	D	/E	D	D	D	/E	M	D	D	/E	12	0	7	2	4	4.5	
1539	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	15	0	6	0	5	3.8	
1540	D	/E	D	D	D	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	E	D	14	0	7	0	4	4.3		
1541	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	14	0	5	2	4	4.0	
1542	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	13	0	5	3	4	4.0	
1543	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	14	0	5	2	4	4.0	
1544	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	M	D	D	/E	13	0	7	1	5	4.0	
1545	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	15	0	5	1	4	4.0	
1546	/E	E	M	D	D	D	/E	M	D	D	/P	E	D	D	D	/E	D	D	D	/P	12	2	5	2	4	5.0		
1547	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	15	0	6	0	4	3.8	
1548	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	16	0	5	0	4	4.0	
1549	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0	
1550	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	16	0	5	0	4	4.0	
1551	D	/E	M	D	D	/P	E	D	D	D	/P	E	D	D	D	/P	E	D	D	D	/P	12	4	4	1	4	4.8	

D=DIBESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG NC=NUMBER OF CYCLES MDE=MEAN# OF DAYS OF CYCLE

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE DATA

GROUP II 2000 MG/M3

FEMALE#	DAY OF EVALUATION (PRE-COHABITATION PERIOD)																			NUMBER OF DAYS IN STAGE								
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	D	P	E	M	NC	MDE	
	2526	D	D	D	/E	M	D	D	D	D	/E	D	D	D	/E	E	M	D	D	/E	E	D	13	0	6	2	3	5.0
2527	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	16	0	5	0	4	4.0
2528	D	D	D	/E	E	D	D	D	/E	D	D	D	D	/P	E	D	D	D	/E	D	D	15	1	5	0	3	5.0	
2529	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	15	0	5	1	4	4.0	
2530	/E	E	D	D	D	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	M	D	D	13	0	7	1	4	4.3	
2531	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	16	0	5	0	4	4.0	
2532	D	D	D	/E	M	D	D	/E	E	D	D	D	/P	E	D	D	D	/P	E	M	D	12	2	5	2	3	4.7	
2533	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	12	0	5	4	4	4.0	
2534	D	/E	M	D	D	/E	E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	11	0	6	4	4	4.3	
2535	D	/E	E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	D	D	/E	D	13	0	8	0	5	3.8	
2536	/E	D	D	D	/E	D	D	D	/E	M	D	D	D	/P	E	D	D	D	/E	D	D	14	1	5	1	4	4.5	
2537	D	D	/E	E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	D	D	/E	14	0	7	0	4	4.5	
2538	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0	
2539	D	D	/E	E	D	D	D	/E	E	D	D	D	/E	E	D	D	D	/E	D	D	D	14	0	7	0	3	5.0	
2540	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	13	0	6	2	5	4.0	
2541	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	14	0	6	1	5	4.0	
2542	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	15	0	5	1	4	4.0	
2543	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	16	0	5	0	4	4.0	
2544	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	14	0	5	2	4	4.0	
2545	D	D	D	/E	M	D	D	/E	D	D	D	/E	E	D	D	D	/E	M	D	D	/E	13	0	6	2	4	4.3	
2546	/M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	14	0	5	2	5	3.8	
2547	D	/E	E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	13	0	6	2	4	4.3	
2548	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	D	16	0	4	1	3	4.0	
2549	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	13	0	6	2	5	4.0	
2550	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	13	0	5	3	4	4.0	
2551	/E	D	D	D	D	/E	D	D	D	/P	E	D	D	D	/P	E	M	D	D	/P	E	12	3	5	1	4	4.8	

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG NC=NUMBER OF CYCLES MDE=MEAN# OF DAYS OF CYCLE

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE DATA

GROUP III 10000 MG/M3

FEMALE#	DAY OF EVALUATION (PRE-COHABITATION PERIOD)																			NUMBER OF DAYS IN STAGE							
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	D	P	E	M	NC	MDE
	3526	D	D	D	D	/E	M	D	D	/E	E	D	D	D	/P	D	D	D	/E	D	D	D	15	1	4	1	3
3527	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	15	0	5	1	4	4.0
3528	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	E	14	0	6	1	4	4.0
3529	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	14	0	5	2	4	4.0
3530	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	16	0	5	0	4	4.0
3531	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	14	0	5	2	4	4.0
3532	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	15	0	5	1	4	4.0
3533	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	D	/E	11	0	6	4	5	4.0
3534	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	14	0	5	2	4	4.0
3535	D	/E	M	D	D	/E	D	D	/E	E	D	D	/E	E	D	D	/E	E	D	D	D	13	0	7	1	4	4.0
3536	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	14	0	5	2	4	4.3
3537	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	14	0	5	2	4	4.0
3538	D	/E	E	D	D	/P	E	D	D	D	/P	E	M	D	D	/E	M	D	D	/P	E	10	3	6	2	4	4.5
3539	/E	D	D	D	D	/E	M	D	D	/E	E	M	D	D	/P	E	M	D	D	/P	E	10	2	6	3	4	4.8
3540	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	16	0	5	0	4	4.0
3541	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	15	0	5	1	4	4.0
3542	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	14	0	6	1	5	4.0
3543	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	13	0	6	2	5	4.0
3544	D	D	D	/E	E	D	D	D	/E	E	D	D	D	/E	E	D	D	D	/E	E	D	13	0	8	0	3	5.0
3545	D	D	D	/E	E	D	D	D	/E	E	M	D	D	/E	E	D	D	D	/E	D	D	13	0	7	1	3	5.0
3546	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0
3547	/M	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	E	D	D	D	D	14	0	5	2	4	4.0
3548	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	D	/E	E	D	D	D	/E	M	12	0	6	3	4	4.5
3549	/E	M	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	D	/E	E	D	D	/E	11	0	7	3	5	4.0
3550	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	14	0	6	1	4	4.0
3551	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	/E	M	D	D	/E	13	0	7	1	5	4.0

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG NC=NUMBER OF CYCLES MDE=MEAN# OF DAYS OF CYCLE

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE DATA

GROUP IV 20000 MG/M3

FEMALE#	DAY OF EVALUATION (PRE-COHABITATION PERIOD)																			NUMBER OF DAYS IN STAGE							
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	D	P	E	M	NC	MDE
	4526	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	11	0	5	5	4
4527	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0
4528	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	13	0	5	3	4	4.0
4529	/P	E	M	D	D	/E	D	D	D	D	/E	M	D	D	/E	M	D	D	D	/E	D	12	1	5	3	4	4.8
4530	D	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	5	1	4	4.0
4531	/E	E	D	D	D	/E	D	D	D	/E	M	D	/E	E	D	D	/E	M	D	D	D	12	0	7	2	4	4.3
4532	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	14	0	5	2	4	4.0
4533	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	14	0	5	2	4	4.0
4534	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0
4535	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	15	0	5	1	4	4.0
4536	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	15	0	5	1	4	4.0
4537	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	16	0	5	0	4	4.0
4538	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	D	13	0	5	3	4	4.0
4539	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	14	0	5	2	4	4.0
4540	D	D	D	D	D	/M	D	D	D	D	D	D	D	D	D	D	D	D	/E	M	D	18	0	1	2	1 <sup>a</sup>	12.0 <sup>a</sup>
4541	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	15	0	6	0	5	4.0
4542	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	M	D	12	0	5	4	4	4.0
4543	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	14	0	5	2	4	4.0
4544	D	D	D	D	D	D	D	D	/E	D	D	D	/E	M	P	E	E	E	E	E	E	12	1	7	1	1	4.0
4545	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	14	0	7	0	5	4.0
4546	D	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	13	0	5	3	4	4.0
4547	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	15	0	5	1	4	4.0
4548	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	16	0	5	0	4	4.0
4549	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	15	0	5	1	4	4.0
4550	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	14	0	5	2	4	4.0
4551	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	15	0	5	1	4	4.0

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG NC=NUMBER OF CYCLES MDE=MEAN# OF DAYS OF CYCLE

<sup>a</sup>PSEUDOPREGNANT, EXCLUDED FROM CALCULATION.

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE AND MATING DATA

GROUP I 0 MG/M3

FEMALE#	DAY OF EVALUATION (COHABITATION PERIOD)													
	70	71	72	73	74	75	76	77	78	79	80	81	82	83
1526	E	M	D	D	C									
1527	E	C												
1528	D	C												
1529	D	D	C											
1530	D	E	E	C										
1531	D	D	D	C										
1532	D	C												
1533	D	C												
1534	S													
1535	D	C												
1536	S													
1537	S													
1538	E	D	D	C										
1539	E	C												
1540	D	D	E	E	E	D	D	D	D	D	D	D	D	D
1541	D	C												
1542	D	C												
1543	D	D	C											
1544	M	D	D	C										
1545	D	C												
1546	S													
1547	D	C												
1548	D	C												
1549	D	D	D	C										
1550	D	C												
1551	E	S												

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG

APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE AND MATING DATA

GROUP II 2000 MG/M3

-----  
 DAY OF EVALUATION (COHABITATION PERIOD)  
 FEMALE# 70 71 72 73 74 75 76 77 78 79 80 81 82 83  
 -----

2526	D	D	C											
2527	D	D	C											
2528	D	S												
2529	S													
2530	S													
2531	D	D	C											
2532	D	P	C											
2533	D	D	C											
2534	D	S												
2535	M	D	D	C										
2536	D	D	D	D	D	D	D	C						
2537	D	D	C											
2538	D	D	D	C										
2539	D	D	C											
2540	M	D	D	C										
2541	M	D	D	S										
2542	D	C												
2543	D	D	E	D	D	D	D	D	D	D	D	D	D	D
2544	D	E	D	D	D	E	D	D	D	E	D	D	D	E
2545	D	D	D	C										
2546	D	E	C											
2547	D	S												
2548	S													
2549	D	D	D	E	D	D	D	E	D	D	D	E	D	D
2550	D	C												
2551	D	D	D	C										

-----  
 D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG

## APPENDIX P P0 GENERATION

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

## INDIVIDUAL ESTROUS CYCLE AND MATING DATA

GROUP III 10000 MG/M3

FEMALE#	DAY OF EVALUATION (COHABITATION PERIOD)													
	70	71	72	73	74	75	76	77	78	79	80	81	82	83
3526	D	E	D	D	D	P	E	D	D	D	D	D	D	D
3527	D	D	D	S										
3528	D	D	C											
3529	D	D	S											
3530	D	E	D	D	D	E	D	D	D	E	D	E	D	D
3531	D	S												
3532	D	D	S											
3533	M	D	D	C										
3534	D	D	C											
3535	S													
3536	D	S												
3537	D	E	D	D	D	S								
3538	D	D	D	P	C									
3539	D	D	D	P	C									
3540	S													
3541	D	D	S											
3542	D	D	D	C										
3543	D	D	D	C										
3544	D	D	S											
3545	E	S												
3546	D	D	D	S										
3547	S													
3548	D	D	D	C										
3549	D	D	P	S										
3550	D	D	S											
3551	D	D	D	S										

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG



APPENDIX P P0 GENERATION

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

INDIVIDUAL ESTROUS CYCLE AND MATING DATA

GROUP IV 20000 MG/M3

FEMALE#	DAY OF EVALUATION (COHABITATION PERIOD)													
	70	71	72	73	74	75	76	77	78	79	80	81	82	83
4526	D	S												
4527	M	D	D	E	D	D	D	S						
4528	D	C												
4529	D	D	S											
4530	M	D	D	E	D	D	D	D	D	D	D	D	D	D
4531	S													
4532	D	D	C											
4533	D	D	S											
4534	M	D	D	C										
4535	D	D	S											
4536	D	S												
4537	D	D	S											
4538	S													
4539	D	D	S											
4540	P	C												
4541	M	D	D	S										
4542	D	E	D	D	D	S								
4543	E	D	D	D	E	D	D	E	M	D	D	E	D	
4544	D	E	E	E	E	E	E	E	E	E	E	E	E	E
4545	D	D	D	E	S									
4546	D	D	S											
4547	D	S												
4548	S													
4549	E	D	D	D	S									
4550	D	D	S											
4551	D	D	E	D	D	D	E	D	D	D	E	D	D	D

D=DIESTRUS M=METESTRUS P=PROESTRUS E=ESTRUS S=SPERM C=COPULATORY PLUG

## APPENDIX Q P0 GENERATION

GASOLINE DIPE 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.	Alternate Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Delivery
1526	1026		+	P	28-JUL-02	2-AUG-02	24-AUG-02
1527	1027		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1528	1028		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1529	1029		+	P	28-JUL-02	31-JUL-02	22-AUG-02
1530	1030		+	P	28-JUL-02	1-AUG-02	23-AUG-02
1531	1031		+	P	28-JUL-02	1-AUG-02	22-AUG-02
1532	1032		+	P	28-JUL-02	30-JUL-02	20-AUG-02
1533	1033		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1534	1034		+	NP	28-JUL-02	29-JUL-02	
1535	1035		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1536	1036		+	P	28-JUL-02	29-JUL-02	20-AUG-02
1537	1037		+	P	28-JUL-02	29-JUL-02	20-AUG-02
1538	1038		+	NP	28-JUL-02	1-AUG-02	
1539	1039		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1540	1040		-	NNMD	28-JUL-02		
1541	1041		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1542	1042		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1543	1043		+	P	28-JUL-02	31-JUL-02	22-AUG-02
1544	1044		+	P	28-JUL-02	1-AUG-02	23-AUG-02
1545	1045		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1546	1046		+	P	28-JUL-02	29-JUL-02	20-AUG-02
1547	1047		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1548	1048		+	NP	28-JUL-02	30-JUL-02	
1549	1049		+	TLL	28-JUL-02	1-AUG-02	23-AUG-02
1550	1050		+	P	28-JUL-02	30-JUL-02	21-AUG-02
1551	1051		+	P	28-JUL-02	30-JUL-02	21-AUG-02

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NP=NOT PREGNANT

NNMD=NOT PREG., NO MATING DATE

TLL=TOTAL LITTER LOSS

P=PREGNANT

## APPENDIX Q P0 GENERATION

GASOLINE DIPE 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.	Alternate Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Delivery
2526	2026		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2527	2027		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2528	2028		+	P	28-JUL-02	30-JUL-02	21-AUG-02
2529	2029		+	P	28-JUL-02	29-JUL-02	20-AUG-02
2530	2030		+	P	28-JUL-02	29-JUL-02	20-AUG-02
2531	2031		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2532	2032		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2533	2033		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2534	2034		+	P	28-JUL-02	30-JUL-02	21-AUG-02
2535	2035		+	P	28-JUL-02	1-AUG-02	23-AUG-02
2536	2036		+	HS	28-JUL-02	5-AUG-02	
2537	2037		+	P	28-JUL-02	31-JUL-02	23-AUG-02
2538	2038		+	P	28-JUL-02	1-AUG-02	23-AUG-02
2539	2039		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2540	2040		+	P	28-JUL-02	1-AUG-02	23-AUG-02
2541	2041		+	P	28-JUL-02	1-AUG-02	23-AUG-02
2542	2042		+	P	28-JUL-02	30-JUL-02	22-AUG-02
2543	2043		-	PNMD	28-JUL-02		26-AUG-02
2544	2044		-	NNMD	28-JUL-02		
2545	2045		+	P	28-JUL-02	1-AUG-02	23-AUG-02
2546	2046		+	P	28-JUL-02	31-JUL-02	22-AUG-02
2547	2047		+	P	28-JUL-02	30-JUL-02	20-AUG-02
2548	2048		+	P	28-JUL-02	29-JUL-02	20-AUG-02
2549	2049		-	NNMD	28-JUL-02		
2550	2050		+	P	28-JUL-02	30-JUL-02	21-AUG-02
2551	2051		+	P	28-JUL-02	1-AUG-02	23-AUG-02

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE P=PREGNANT

## APPENDIX Q P0 GENERATION

GASOLINE DIPE 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.	Alternate Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Delivery
3526	3026		-	NNMD	28-JUL-02		
3527	3027		+	P	28-JUL-02	1-AUG-02	23-AUG-02
3528	3028		+	P	28-JUL-02	31-JUL-02	22-AUG-02
3529	3029		+	P	28-JUL-02	31-JUL-02	22-AUG-02
3530	3030		-	NNMD	28-JUL-02		
3531	3031		+	P	28-JUL-02	30-JUL-02	21-AUG-02
3532	3032		+	P	28-JUL-02	31-JUL-02	22-AUG-02
3533	3033		+	P	28-JUL-02	1-AUG-02	22-AUG-02
3534	3034		+	TLL	28-JUL-02	31-JUL-02	23-AUG-02
3535	3035		+	P	28-JUL-02	29-JUL-02	20-AUG-02
3536	3036		+	P	28-JUL-02	30-JUL-02	21-AUG-02
3537	3037		+	P	28-JUL-02	3-AUG-02	25-AUG-02
3538	3038		+	P	28-JUL-02	2-AUG-02	24-AUG-02
3539	3039		+	P	28-JUL-02	2-AUG-02	24-AUG-02
3540	3040		+	P	28-JUL-02	29-JUL-02	20-AUG-02
3541	3041		+	P	28-JUL-02	31-JUL-02	21-AUG-02
3542	3042		+	P	28-JUL-02	1-AUG-02	23-AUG-02
3543	3035		+	P	29-JUL-02	1-AUG-02	23-AUG-02
3544	3044		+	P	28-JUL-02	31-JUL-02	22-AUG-02
3545	3045		+	P	28-JUL-02	30-JUL-02	21-AUG-02
3546	3046		+	P	28-JUL-02	1-AUG-02	23-AUG-02
3547	3047		+	P	28-JUL-02	29-JUL-02	20-AUG-02
3548	3048		+	P	28-JUL-02	1-AUG-02	23-AUG-02
3549	3049		+	P	28-JUL-02	1-AUG-02	23-AUG-02
3550	3050		+	P	28-JUL-02	31-JUL-02	21-AUG-02
3551	3051		+	P	28-JUL-02	1-AUG-02	23-AUG-02

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS P=PREGNANT

## APPENDIX Q P0 GENERATION

GASOLINE DIPE 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.	Alternate Male No.	Sperm/Plug	Outcome	Date of Cohabitation	Date of Insemination	Date of Delivery
4526	4026		+	P	28-JUL-02	30-JUL-02	21-AUG-02
4527	4027		+	P	28-JUL-02	5-AUG-02	27-AUG-02
4528	4028		+	P	28-JUL-02	30-JUL-02	21-AUG-02
4529	4029		+	P	28-JUL-02	31-JUL-02	21-AUG-02
4530	4030		-	PNMD	28-JUL-02		22-AUG-02
4531	4031		+	P	28-JUL-02	29-JUL-02	20-AUG-02
4532	4032		+	P	28-JUL-02	31-JUL-02	23-AUG-02
4533	4033		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4534	4034		+	P	28-JUL-02	1-AUG-02	23-AUG-02
4535	4035		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4536	4036		+	P	28-JUL-02	30-JUL-02	21-AUG-02
4537	4037		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4538	4038		+	HS	28-JUL-02	29-JUL-02	20-AUG-02
4539	4039		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4540	4040		+	P	28-JUL-02	30-JUL-02	21-AUG-02
4541	4041		+	P	28-JUL-02	1-AUG-02	23-AUG-02
4542	4042		+	P	28-JUL-02	3-AUG-02	26-AUG-02
4543	4043		-	NNMD	28-JUL-02		
4544	4044		-	NNMD	28-JUL-02		
4545	4045		+	P	28-JUL-02	2-AUG-02	23-AUG-02
4546	4046		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4547	4047		+	P	28-JUL-02	30-JUL-02	21-AUG-02
4548	4048		+	P	28-JUL-02	29-JUL-02	20-AUG-02
4549	4049		+	P	28-JUL-02	2-AUG-02	24-AUG-02
4550	4050		+	P	28-JUL-02	31-JUL-02	22-AUG-02
4551	4051		-	NP	28-JUL-02		

+ = Sperm/Plug Positive - = Sperm/Plug Negative N = Not Mated

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE P=PREGNANT

## APPENDIX R P0 GENERATION

GASOLINE DIPE 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	1		4		7		14		21		28			
				M	F	M	F	M	F	M	F	M	F	M	F		
1526	12	0	12	4	8	4	8	4	6	4	6	4	6	4	6	12	22
1527	12	0	12	8	4	8	4	6	4	6	4	6	4	6	4	13	22
1528	9	0	9	5	4	5	3	5	3	5	2	5	2	5	2	10	22
1529	12	0	12	4	7	4	7	4	6	4	6	4	6	4	6	13	22
1530	5	0	5	2	3	2	3	2	3	2	3	2	3	2	3	5	22
1531	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	14	21
1532	13	0	13	9	4	9	4	6	4	6	4	6	4	6	4	12	21
1533	14	1	15	5	9	5	9	5	5	5	5	5	5	5	5	15	22
1534x NP																	
1535	11	0	11	5	5	5	5	5	5	4	5	4	5	4	5	12	22
1536	12	0	12	5	7	5	7	5	5	5	5	5	5	5	5	12	22
1537	16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	16	22
1538x NP																	
1539	12	1	13	6	6	6	6	5	5	5	5	5	5	5	5	17	22
1540xNNMD																	
1541	15	0	15	7	8	7	7	5	5	5	5	5	5	5	5	17	22
1542	11	0	11	6	5	6	5	5	5	5	5	5	5	5	5	11	22
1543	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	17	22
1544	12	1	13	7	5	7	5	5	5	5	5	5	5	5	5	13	22
1545	15	0	15	8	7	8	7	5	5	5	5	5	5	5	5	15	22
1546	13	0	13	4	9	4	9	4	6	4	6	4	6	4	6	15	22
1547	6	0	6	4	2	4	2	4	2	4	2	4	2	4	2	6	22
1548x NP																	
1549 TLL	13	1	14	7	6	0	0	0	0	0	0	0	0	0	0	14	22
1550	12	0	12	8	3	8	3	7	3	7	3	7	3	7	3	12	22
1551	9	0	9	3	6	3	6	3	6	3	6	3	6	3	6	9	22
MEAN	11.9	0.2	12.1	6.0	5.8	6.0	5.7	4.8	4.7	4.7	4.6	4.7	4.6	4.7	4.6	12.7	21.9
S.D.	2.7	0.4	2.8	2.1	2.0	2.1	2.0	1.0	1.1	1.1	1.2	1.1	1.2	1.1	1.2	3.2	0.3
N	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	22	22

NP=NOT PREGNANT NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS x=EXCLUDED FROM MEAN

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY  
DAY 4 COLUMNS = PRECULLING

## APPENDIX R P0 GENERATION

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

## INDIVIDUAL DELIVERY AND LITTER DATA

GROUP II 2000 MG/M3

FEMALE#	LITTER DELIVERED			NUMBER OF LIVE PUPS												TOTAL IMPLAN- TATIONS N	DURATION OF GESTATION (DAYS) N
	LIVE N	DEAD N	TOTAL N	1		4		7		14		21		28			
				M	F	M	F	M	F	M	F	M	F	M	F		
2526	16	0	16	12	4	12	4	6	4	6	4	6	4	6	4	18	22
2527	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	15	22
2528	16	0	16	7	9	7	9	5	5	5	5	5	5	5	5	16	22
2529	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	15	22
2530	13	1	14	6	7	6	7	5	5	5	5	5	5	5	5	14	22
2531	16	0	16	7	8	7	8	5	5	5	5	5	5	5	5	17	22
2532	13	0	13	9	4	9	4	6	4	6	4	6	4	6	4	15	22
2533	17	0	17	9	8	9	8	5	5	5	5	5	5	5	5	16	22
2534	14	0	14	9	5	9	5	5	5	5	5	5	5	5	5	14	22
2535	10	0	10	7	3	7	3	7	3	7	3	7	3	7	3	10	22
2536x HS																18	
2537	4	0	4	3	1	3	1	3	1	3	1	3	1	3	1	7	23
2538	11	0	11	5	4	5	4	5	4	5	4	5	4	5	4	11	22
2539	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	14	22
2540	11	0	11	6	5	6	5	5	5	5	5	5	5	5	5	12	22
2541	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	16	22
2542	13	0	13	5	7	5	7	5	5	5	5	5	5	5	5	15	22
2543 PNMD	16	0	16	7	9	7	9	5	5	5	5	5	5	5	5	18	no day 0
2544xNNMD																	
2545	12	0	12	5	7	4	7	4	6	4	6	4	6	4	6	13	22
2546	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	16	22
2547	12	0	12	4	8	4	8	4	6	4	6	4	6	4	6	12	21
2548	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	14	22
2549xNNMD																	
2550	11	1	12	3	8	3	8	3	7	3	7	3	7	3	7	15	22
2551	12	0	12	4	8	4	8	4	6	4	6	4	6	4	6	12	22
MEAN	13.0	0.1	13.1	6.5	6.3	6.5	6.3	4.9	4.8	4.9	4.8	4.9	4.8	4.9	4.8	14.1	22.0
S.D.	2.7	0.3	2.7	2.2	2.2	2.3	2.2	0.9	1.2	0.9	1.2	0.9	1.2	0.9	1.2	2.6	0.3
N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE x=EXCLUDED FROM MEAN

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY  
DAY 4 COLUMNS = PRECULLING

## APPENDIX R P0 GENERATION

GASOLINE DIPE 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			
3526xNNMD																	
3527	16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	16	22
3528	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	15	22
3529	15	0	15	6	8	6	8	5	5	5	5	5	5	5	5	16	22
3530xNNMD																	
3531	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	16	22
3532	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	13	22
3533	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	15	21
3534 TLL	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	23
3535	15	0	15	8	6	8	6	5	5	5	5	5	5	5	5	15	22
3536	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	14	22
3537	13	0	13	11	2	11	2	8	2	8	2	8	2	8	2	14	22
3538	12	0	12	7	5	7	5	5	5	5	5	5	4	5	4	14	22
3539	13	0	13	5	8	5	8	5	5	5	5	5	5	5	5	14	22
3540	13	0	13	7	6	7	6	5	5	5	5	5	4	5	4	13	22
3541	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	14	21
3542	10	0	10	6	4	6	4	6	4	6	4	6	4	6	4	10	22
3543	15	0	15	5	10	5	10	5	5	5	5	5	5	5	5	16	22
3544	13	0	13	6	7	6	7	5	5	5	5	5	5	5	5	14	22
3545	13	0	13	5	8	5	8	5	5	5	5	5	5	5	5	14	22
3546	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	16	22
3547	10	0	10	6	4	6	4	6	4	6	4	6	4	6	4	14	22
3548	11	0	11	5	6	5	6	5	5	5	5	5	5	5	5	17	22
3549	14	1	15	6	8	6	8	5	5	5	5	5	5	5	5	15	22
3550	16	1	17	8	8	8	8	5	5	5	5	5	5	5	5	17	21
3551	15	0	15	5	10	5	10	5	5	5	5	5	5	5	5	17	22
MEAN	13.0	0.1	13.1	6.9	6.5	6.9	6.5	5.2	4.8	5.2	4.8	5.2	4.7	5.2	4.7	14.3	21.9
S.D.	2.9	0.3	2.9	1.6	2.0	1.6	2.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.9	0.4
N	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	24	24

NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS x=EXCLUDED FROM MEAN

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY  
DAY 4 COLUMNS = PRECULLING



## APPENDIX R P0 GENERATION

GASOLINE DIPE 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		
4526	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	13	22
4527	11	1	12	6	5	6	5	5	5	5	5	5	5	5	5	12	22
4528	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	16	22
4529	15	0	15	11	4	11	4	6	4	6	4	6	4	6	4	16	21
4530 PNMD	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	16	no day 0
4531	14	0	14	7	7	7	7	5	5	5	5	5	5	5	5	15	22
4532	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	14	23
4533	8	1	9	5	3	5	3	5	3	5	3	5	3	5	3	17	22
4534	10	2	12	7	3	7	3	7	3	7	3	7	3	7	3	13	22
4535	15	1	16	10	5	10	5	5	5	5	5	5	5	5	5	16	22
4536	14	0	14	6	8	6	8	5	5	5	5	5	5	5	5	17	22
4537	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	15	22
4538x HS	14	1	15	5	9	5	9	5	5	5	5	0	0	0	0	16	22
4539	9	0	9	3	5	2	5	2	5	2	5	2	5	2	5	16	22
4540	13	0	13	6	7	5	7	5	5	5	5	5	5	5	5	14	22
4541	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	13	22
4542	9	0	9	5	4	5	4	5	4	5	4	5	4	5	4	11	23
4543xNNMD																	
4544xNNMD																	
4545	11	0	11	7	4	7	4	6	4	6	4	6	4	6	4	13	21
4546	12	2	14	5	6	5	6	5	5	5	5	5	5	5	5	15	22
4547	15	0	15	10	5	10	5	5	5	5	5	5	5	5	5	16	22
4548	14	0	14	6	8	6	8	5	5	5	5	5	5	5	5	15	22
4549	12	0	12	6	6	6	6	5	5	5	5	5	5	5	5	12	22
4550	15	0	15	8	7	8	7	5	5	5	5	5	5	5	5	14	22
4551x NP																	
MEAN	12.7	0.3	13.0	6.8	5.8	6.7	5.8	5.0	4.7	5.0	4.7	5.0	4.7	5.0	4.7	14.5	22.0
S.D.	2.2	0.6	2.1	1.9	1.7	2.1	1.7	0.8	0.6	0.8	0.6	0.8	0.6	0.8	0.6	1.7	0.4
N	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE  
x=EXCLUDED FROM MEAN

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY

DAY 4 COLUMNS = PRECULLING

## APPENDIX S F1 GENERATION

GASOLINE DIPE 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
1526	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4											
1527	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28											
1528	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FD 2	FD11	FK28													
1529	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FM 1	FK28											
1530	MK28	MK28	FK28	FK28	FK28																		
1531	MK28	MK28	MC 4	MK28	MK28	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28	FK28										
1532	MK28	MC 4	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28							
1533	FS	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FC 4								
1535	MK28	MD 8	MK28	MK28	MK28	FD 1	FK28	FK28	FK28	FK28	FK28												
1536	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28											
1537	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FC 4	FK28	FK28	FK28	FK28	FK28						
1539	MS	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28										
1541	MK28	MK28	MK28	MC 4	MC 4	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FM 2								
1542	MK28	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28												
1543	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4	FK28								
1544	MS	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28								
1545	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4								
1546	MK28	FK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FC 4										
1547	MK28	MK28	MK28	MK28	FK28	FK28																	
1549	FS	MD 2	MD 2	MD 2	MD 2	MD 2	MD 2	MD 2	FD 2	FD 2	FD 2	FD 2	FD 2	FD 2	FD 2								
1550	MC 4	MK28	MM 1	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28											
1551	MK28	MK28	MK28	FK28	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-STILBORN D-DIED C-CULLED M-MISSING K-SCHEDULED SACRIFICE

## APPENDIX S F1 GENERATION

GASOLINE DIPE 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
2526	MC 4	MC 4	MK28	MC 4	MK28	MC 4	MK28	MC 4	MK28	MC 4	MK28	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28					
2527	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	FC 4	FK28	FK28	FK28	FK28	FK28									
2528	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4	FC 4								
2529	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	FK28									
2530	FS	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28									
2531	MC 4	MK28	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FC 4	FC 4	FK28	FK28	FM 1	FK28	FK28							
2532	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28							
2533	MK28	MC 4	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4					
2534	MK28	MC 4	MC 4	MK28	MC 4	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28							
2535	MK28	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28													
2537	MK28	MK28	MK28	FK28																			
2538	MK28	MK28	MK28	MD 0	MK28	MK28	FK28	FM 1	FK28	FK28	FK28												
2539	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FK28	FC 4									
2540	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28												
2541	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4								
2542	MD 0	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FK28										
2543	MC 4	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FC 4							
2545	MK28	MK28	MK28	MM 2	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FK28											
2546	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FK28							
2547	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28											
2548	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28	FK28									
2550	FS	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28	FK28	FK28	FK28										
2551	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	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 F1 GENERATION

GASOLINE DIPE 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
3527	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28	FK28	FC 4							
3528	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28								
3529	MM 1	MC 4	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4								
3531	MC 4	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	FK28									
3532	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	MK28											
3533	MK28	MC 4	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FC 4								
3534	FD 1	FD 1																					
3535	MK28	MD 1	MK28	MK28	MC 4	MK28	MC 4	MK28	FK28	FK28	FK28	MC 4	FC 4	FK28	FK28								
3536	MC 4	MK28	MC 4	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28										
3537	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MK28	MK28	MC 4	MK28	FK28	FK28										
3538	MK28	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FM17	FK28	FK28	FK28											
3539	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28										
3540	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FC 4	FD16	FK28										
3541	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	FK28	FC 4	FK28	FK28	FK28										
3542	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28													
3543	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4	FK28	FC 4								
3544	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28										
3545	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FK28										
3546	MC 4	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4							
3547	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28													
3548	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FK28	FK28												
3549	FS	MK28	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4								
3550	FS	MC 4	MK28	MK28	MC 4	MC 4	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FK28						
3551	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FC 4	FK28	FK28	FC 4								

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-STILBORN D-DIED C-CULLED M-MISSING K-SCHEDULED SACRIFICE

APPENDIX S F1 GENERATION

GASOLINE DIPE 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
4526	MK28	MC 4	MK28	MK28	MC 4	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28	FK28									
4527	FS	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28										
4528	MC 4	MK28	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FC 4	FK28	FK28	FK28	FK28						
4529	MK28	MK28	MK28	MC 4	MK28	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28						
4530	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28	FC 4							
4531	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4								
4532	MC 4	MC 4	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4							
4533	MS	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28														
4534	MS	FS	MK28	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28										
4535	MS	MK28	MK28	MK28	MC 4	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28						
4536	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4							
4537	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FC 4	FC 4	FK28								
4538	US	MU14	MU14	MU14	MU14	MU14	FU14	FU14	FU14	FU14	FU14	FC 4	FC 4	FC 4	FC 4								
4539	UM 0	MM 2	MK28	MK28	FK28	FK28	FK28	FK28	FK28														
4540	MK28	MK28	MK28	MM 3	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FK28	FK28								
4541	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28										
4542	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28														
4545	MK28	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28												
4546	FS	FD 0	FS	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4							
4547	MC 4	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	FK28							
4548	MK28	MC 4	MK28	MK28	MK28	MK28	FC 4	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28									
4549	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28	FC 4										
4550	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	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 U-UNSCHEDULED SACRIFICE

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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		
1526	PUP# 1	WITHIN NORMAL LIMITS	P																														
	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														
1527	PUP# 1	WITHIN NORMAL LIMITS	P																														
	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														
1528	PUP# 1	WITHIN NORMAL LIMITS	P																														
	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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		
1528	PUP# 8	WITHIN NORMAL LIMITS							P		P																						
	PUP# 9	WITHIN NORMAL LIMITS							P		P														P								
	PUP# 8	SWOLLEN PAW(S)																														P	
	PUP# 8	SCABS																														P	
1529	PUP# 1	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 2	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 3	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 4	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 5	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 6	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 7	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 8	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 9	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 10	WITHIN NORMAL LIMITS							P		P														P							P	
	PUP# 11	WITHIN NORMAL LIMITS							P																								
	PUP# 12	WITHIN NORMAL LIMITS							P		P														P							P	
1530	PUP# 1	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 2	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 3	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 4	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 5	WITHIN NORMAL LIMITS							P		P													P							P		
1531	PUP# 1	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 2	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 3	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 4	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 5	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 6	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 7	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 8	WITHIN NORMAL LIMITS							P		P													P							P		
	PUP# 9	WITHIN NORMAL LIMITS							P		P													P							P		

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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		
1531	PUP# 10	WITHIN NORMAL LIMITS																															
	PUP# 11	WITHIN NORMAL LIMITS																															
	PUP# 12	WITHIN NORMAL LIMITS																															
	PUP# 13	WITHIN NORMAL LIMITS																															
1532	PUP# 1	WITHIN NORMAL LIMITS																															
	PUP# 2	WITHIN NORMAL LIMITS																															
	PUP# 3	WITHIN NORMAL LIMITS																															
	PUP# 4	WITHIN NORMAL LIMITS																															
	PUP# 5	WITHIN NORMAL LIMITS																															
	PUP# 6	WITHIN NORMAL LIMITS																															
	PUP# 7	WITHIN NORMAL LIMITS																															
	PUP# 8	WITHIN NORMAL LIMITS																															
	PUP# 9	WITHIN NORMAL LIMITS																															
	PUP# 10	WITHIN NORMAL LIMITS																															
	PUP# 11	WITHIN NORMAL LIMITS																															
	PUP# 12	WITHIN NORMAL LIMITS																															
	PUP# 13	WITHIN NORMAL LIMITS																															
1533	PUP# 2	WITHIN NORMAL LIMITS																															
	PUP# 3	WITHIN NORMAL LIMITS																															
	PUP# 4	WITHIN NORMAL LIMITS																															
	PUP# 5	WITHIN NORMAL LIMITS																															
	PUP# 6	WITHIN NORMAL LIMITS																															
	PUP# 7	WITHIN NORMAL LIMITS																															
	PUP# 8	WITHIN NORMAL LIMITS																															
	PUP# 9	WITHIN NORMAL LIMITS																															
	PUP# 10	WITHIN NORMAL LIMITS																															
	PUP# 11	WITHIN NORMAL LIMITS																															
	PUP# 12	WITHIN NORMAL LIMITS																															
	PUP# 13	WITHIN NORMAL LIMITS																															
	PUP# 14	WITHIN NORMAL LIMITS																															
	PUP# 15	WITHIN NORMAL LIMITS																															

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



APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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																													
			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	
1535	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
1536	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
	PUP# 12	WITHIN NORMAL LIMITS																														
1537	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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	
1537	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P																				P				
	PUP# 12	WITHIN NORMAL LIMITS	P					P																								
	PUP# 13	WITHIN NORMAL LIMITS	P					P																								
	PUP# 14	WITHIN NORMAL LIMITS	P					P																								
	PUP# 15	WITHIN NORMAL LIMITS	P					P																								
	PUP# 16	WITHIN NORMAL LIMITS	P					P																								
1539	PUP# 2	WITHIN NORMAL LIMITS	P					P																								
	PUP# 3	WITHIN NORMAL LIMITS	P					P																								
	PUP# 4	WITHIN NORMAL LIMITS	P					P																								
	PUP# 5	WITHIN NORMAL LIMITS	P					P																								
	PUP# 6	WITHIN NORMAL LIMITS	P					P																								
	PUP# 7	WITHIN NORMAL LIMITS	P					P																								
	PUP# 8	WITHIN NORMAL LIMITS	P					P																								
	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P																								
	PUP# 12	WITHIN NORMAL LIMITS	P					P																								
	PUP# 13	WITHIN NORMAL LIMITS	P					P																								
1541	PUP# 1	WITHIN NORMAL LIMITS	P					P																								
	PUP# 2	WITHIN NORMAL LIMITS	P					P																								
	PUP# 3	WITHIN NORMAL LIMITS	P					P																								
	PUP# 4	WITHIN NORMAL LIMITS	P					P																								
	PUP# 5	WITHIN NORMAL LIMITS	P					P																								
	PUP# 6	WITHIN NORMAL LIMITS	P					P																								
	PUP# 7	WITHIN NORMAL LIMITS	P					P																								
	PUP# 8	WITHIN NORMAL LIMITS	P					P																								
	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P																								

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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	
1541	PUP# 12	WITHIN NORMAL LIMITS																														
	PUP# 13	WITHIN NORMAL LIMITS																														
	PUP# 14	WITHIN NORMAL LIMITS																														
	PUP# 15	WITHIN NORMAL LIMITS																														
1542	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
1543	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
	PUP# 12	WITHIN NORMAL LIMITS																														
	PUP# 13	WITHIN NORMAL LIMITS																														
	PUP# 14	WITHIN NORMAL LIMITS																														
	PUP# 15	WITHIN NORMAL LIMITS																														

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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	
1544	PUP# 2	WITHIN NORMAL LIMITS	P																													
	PUP# 3	WITHIN NORMAL LIMITS	P																													
	PUP# 4	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 5	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 6	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 7	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 8	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 9	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 10	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 11	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 12	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 13	WITHIN NORMAL LIMITS	P					P										P								P						
1545	PUP# 1	WITHIN NORMAL LIMITS	P					P																								
	PUP# 2	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 3	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 4	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 5	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 6	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 7	WITHIN NORMAL LIMITS	P					P																								
	PUP# 8	WITHIN NORMAL LIMITS	P					P																								
	PUP# 9	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 12	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 13	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 14	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 15	WITHIN NORMAL LIMITS	P					P																								
1546	PUP# 1	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 2	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 3	WITHIN NORMAL LIMITS	P					P										P								P						
	PUP# 4	WITHIN NORMAL LIMITS	P					P										P								P						

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

## APPENDIX T F1 GENERATION

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

## INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION	1 1 1 1 1 1 1 1 1 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
1546	PUP# 5	WITHIN NORMAL LIMITS																			P									
	PUP# 6	WITHIN NORMAL LIMITS																			P									
	PUP# 7	WITHIN NORMAL LIMITS																			P									
	PUP# 8	WITHIN NORMAL LIMITS																			P									
	PUP# 9	WITHIN NORMAL LIMITS																			P									
	PUP# 10	WITHIN NORMAL LIMITS																			P									
	PUP# 11	WITHIN NORMAL LIMITS																			P									
	PUP# 12	WITHIN NORMAL LIMITS																			P									
	PUP# 13	WITHIN NORMAL LIMITS																			P									
1547	PUP# 1	WITHIN NORMAL LIMITS																			P									
	PUP# 2	WITHIN NORMAL LIMITS																			P									
	PUP# 3	WITHIN NORMAL LIMITS																			P									
	PUP# 4	WITHIN NORMAL LIMITS																			P									
	PUP# 5	WITHIN NORMAL LIMITS																			P									
	PUP# 6	WITHIN NORMAL LIMITS																			P									
1549	PUP# 2	WITHIN NORMAL LIMITS																			P									
	PUP# 3	WITHIN NORMAL LIMITS																			P									
	PUP# 4	WITHIN NORMAL LIMITS																			P									
	PUP# 5	WITHIN NORMAL LIMITS																			P									
	PUP# 6	WITHIN NORMAL LIMITS																			P									
	PUP# 7	WITHIN NORMAL LIMITS																			P									
	PUP# 8	WITHIN NORMAL LIMITS																			P									
	PUP# 9	WITHIN NORMAL LIMITS																			P									
	PUP# 10	WITHIN NORMAL LIMITS																			P									
	PUP# 11	WITHIN NORMAL LIMITS																			P									
	PUP# 12	WITHIN NORMAL LIMITS																			P									
	PUP# 13	WITHIN NORMAL LIMITS																			P									
	PUP# 14	WITHIN NORMAL LIMITS																			P									

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP I 0 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
1550	PUP# 1	WITHIN NORMAL LIMITS																			
	PUP# 2	WITHIN NORMAL LIMITS																			
	PUP# 3	WITHIN NORMAL LIMITS																			
	PUP# 4	WITHIN NORMAL LIMITS																			
	PUP# 5	WITHIN NORMAL LIMITS																			
	PUP# 6	WITHIN NORMAL LIMITS																			
	PUP# 7	WITHIN NORMAL LIMITS																			
	PUP# 8	WITHIN NORMAL LIMITS																			
	PUP# 9	WITHIN NORMAL LIMITS																			
	PUP# 10	WITHIN NORMAL LIMITS																			
	PUP# 11	WITHIN NORMAL LIMITS																			
	PUP# 12	WITHIN NORMAL LIMITS																			
1551	PUP# 1	WITHIN NORMAL LIMITS																			
	PUP# 2	WITHIN NORMAL LIMITS																			
	PUP# 3	WITHIN NORMAL LIMITS																			
	PUP# 4	WITHIN NORMAL LIMITS																			
	PUP# 5	WITHIN NORMAL LIMITS																			
	PUP# 6	WITHIN NORMAL LIMITS																			
	PUP# 7	WITHIN NORMAL LIMITS																			
	PUP# 8	WITHIN NORMAL LIMITS																			
	PUP# 9	WITHIN NORMAL LIMITS																			

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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					
												1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
2526	PUP# 1	WITHIN NORMAL LIMITS	P				P																			
	PUP# 2	WITHIN NORMAL LIMITS	P				P																			
	PUP# 3	WITHIN NORMAL LIMITS	P				P															P				
	PUP# 4	WITHIN NORMAL LIMITS	P				P																			
	PUP# 5	WITHIN NORMAL LIMITS	P				P																			
	PUP# 6	WITHIN NORMAL LIMITS	P				P																			
	PUP# 7	WITHIN NORMAL LIMITS	P				P																			
	PUP# 8	WITHIN NORMAL LIMITS	P				P																			
	PUP# 9	WITHIN NORMAL LIMITS	P				P																			
	PUP# 10	WITHIN NORMAL LIMITS	P				P																			
	PUP# 11	WITHIN NORMAL LIMITS	P				P																			
	PUP# 12	WITHIN NORMAL LIMITS	P				P																			
	PUP# 13	WITHIN NORMAL LIMITS	P				P																			
	PUP# 14	WITHIN NORMAL LIMITS	P				P																			
	PUP# 15	WITHIN NORMAL LIMITS	P				P																			
	PUP# 16	WITHIN NORMAL LIMITS	P				P																			
	PUP# 9	SWOLLEN SNOUT																								
	PUP# 9	ULCERATION - CERVICAL																								
	PUP# 9	SCABS																								
	PUP# 9	OPACITY - UNILATERAL																								
2527	PUP# 1	WITHIN NORMAL LIMITS	P				P																			
	PUP# 2	WITHIN NORMAL LIMITS	P				P																			
	PUP# 3	WITHIN NORMAL LIMITS	P				P																			
	PUP# 4	WITHIN NORMAL LIMITS	P				P																			
	PUP# 5	WITHIN NORMAL LIMITS	P				P																			
	PUP# 6	WITHIN NORMAL LIMITS	P				P																			
	PUP# 7	WITHIN NORMAL LIMITS	P				P																			
	PUP# 8	WITHIN NORMAL LIMITS	P				P																			
	PUP# 9	WITHIN NORMAL LIMITS	P				P																			
	PUP# 10	WITHIN NORMAL LIMITS	P				P																			
	PUP# 11	WITHIN NORMAL LIMITS	P				P																			
	PUP# 12	WITHIN NORMAL LIMITS	P				P																			

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																									
			0	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
2527	PUP# 13	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 14	WITHIN NORMAL LIMITS	P											P							P						P
2528	PUP# 1	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 2	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 3	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 4	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 5	WITHIN NORMAL LIMITS	P											P							P						P
	PUP# 6	WITHIN NORMAL LIMITS	P																								
	PUP# 7	WITHIN NORMAL LIMITS	P																								
	PUP# 8	WITHIN NORMAL LIMITS	P																								
	PUP# 9	WITHIN NORMAL LIMITS	P																								
	PUP# 10	WITHIN NORMAL LIMITS	P																								
	PUP# 11	WITHIN NORMAL LIMITS	P																								
	PUP# 12	WITHIN NORMAL LIMITS	P																								
	PUP# 13	WITHIN NORMAL LIMITS	P																								
	PUP# 14	WITHIN NORMAL LIMITS	P																								
	PUP# 15	WITHIN NORMAL LIMITS	P																								
	PUP# 16	WITHIN NORMAL LIMITS	P																								
2529	PUP# 1	WITHIN NORMAL LIMITS	P																								
	PUP# 2	WITHIN NORMAL LIMITS	P																								
	PUP# 3	WITHIN NORMAL LIMITS	P																								
	PUP# 4	WITHIN NORMAL LIMITS	P																								
	PUP# 5	WITHIN NORMAL LIMITS	P																								
	PUP# 6	WITHIN NORMAL LIMITS	P																								
	PUP# 7	WITHIN NORMAL LIMITS	P																								
	PUP# 8	WITHIN NORMAL LIMITS	P																								
	PUP# 9	WITHIN NORMAL LIMITS	P																								
	PUP# 10	WITHIN NORMAL LIMITS	P																								
	PUP# 11	WITHIN NORMAL LIMITS	P																								
	PUP# 12	WITHIN NORMAL LIMITS	P																								
	PUP# 13	WITHIN NORMAL LIMITS	P																								

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



APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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					
2530	PUP# 2	WITHIN NORMAL LIMITS	P																																	
	PUP# 3	WITHIN NORMAL LIMITS	P																																	
	PUP# 4	WITHIN NORMAL LIMITS	P																																	
	PUP# 5	WITHIN NORMAL LIMITS	P																																	
	PUP# 6	WITHIN NORMAL LIMITS	P																																	
	PUP# 7	WITHIN NORMAL LIMITS	P																																	
	PUP# 8	WITHIN NORMAL LIMITS	P																																	
	PUP# 9	WITHIN NORMAL LIMITS	P																																	
	PUP# 10	WITHIN NORMAL LIMITS	P																																	
	PUP# 11	WITHIN NORMAL LIMITS	P																																	
	PUP# 12	WITHIN NORMAL LIMITS	P																																	
	PUP# 13	WITHIN NORMAL LIMITS	P																																	
	PUP# 14	WITHIN NORMAL LIMITS	P																																	
	2531	PUP# 1	WITHIN NORMAL LIMITS	P																																
PUP# 2		WITHIN NORMAL LIMITS	P																																	
PUP# 3		WITHIN NORMAL LIMITS	P																																	
PUP# 4		WITHIN NORMAL LIMITS	P																																	
PUP# 5		WITHIN NORMAL LIMITS	P																																	
PUP# 6		WITHIN NORMAL LIMITS	P																																	
PUP# 7		WITHIN NORMAL LIMITS	P																																	
PUP# 8		WITHIN NORMAL LIMITS	P																																	
PUP# 9		WITHIN NORMAL LIMITS	P																																	
PUP# 10		WITHIN NORMAL LIMITS	P																																	
PUP# 11		WITHIN NORMAL LIMITS	P																																	
PUP# 12		WITHIN NORMAL LIMITS	P																																	
PUP# 13		WITHIN NORMAL LIMITS	P																																	
PUP# 14		WITHIN NORMAL LIMITS	P																																	
PUP# 15		WITHIN NORMAL LIMITS	P																																	
PUP# 16		WITHIN NORMAL LIMITS	P																																	

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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								
2532	PUP# 1	WITHIN NORMAL LIMITS																																					
	PUP# 2	WITHIN NORMAL LIMITS																																					
	PUP# 3	WITHIN NORMAL LIMITS																																					
	PUP# 4	WITHIN NORMAL LIMITS																																					
	PUP# 5	WITHIN NORMAL LIMITS																																					
	PUP# 6	WITHIN NORMAL LIMITS																																					
	PUP# 7	WITHIN NORMAL LIMITS																																					
	PUP# 8	WITHIN NORMAL LIMITS																																					
	PUP# 9	WITHIN NORMAL LIMITS																																					
	PUP# 10	WITHIN NORMAL LIMITS																																					
	PUP# 11	WITHIN NORMAL LIMITS																																					
	PUP# 12	WITHIN NORMAL LIMITS																																					
	PUP# 13	WITHIN NORMAL LIMITS																																					
2533	PUP# 1	WITHIN NORMAL LIMITS																																					
	PUP# 2	WITHIN NORMAL LIMITS																																					
	PUP# 3	WITHIN NORMAL LIMITS																																					
	PUP# 4	WITHIN NORMAL LIMITS																																					
	PUP# 5	WITHIN NORMAL LIMITS																																					
	PUP# 6	WITHIN NORMAL LIMITS																																					
	PUP# 7	WITHIN NORMAL LIMITS																																					
	PUP# 8	WITHIN NORMAL LIMITS																																					
	PUP# 9	WITHIN NORMAL LIMITS																																					
	PUP# 10	WITHIN NORMAL LIMITS																																					
	PUP# 11	WITHIN NORMAL LIMITS																																					
	PUP# 12	WITHIN NORMAL LIMITS																																					
	PUP# 13	WITHIN NORMAL LIMITS																																					
	PUP# 14	WITHIN NORMAL LIMITS																																					
	PUP# 15	WITHIN NORMAL LIMITS																																					
	PUP# 16	WITHIN NORMAL LIMITS																																					
	PUP# 17	WITHIN NORMAL LIMITS																																					

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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			
2534	PUP# 1	WITHIN NORMAL LIMITS																						
	PUP# 2	WITHIN NORMAL LIMITS																						
	PUP# 3	WITHIN NORMAL LIMITS																						
	PUP# 4	WITHIN NORMAL LIMITS																						
	PUP# 5	WITHIN NORMAL LIMITS																						
	PUP# 6	WITHIN NORMAL LIMITS																						
	PUP# 7	WITHIN NORMAL LIMITS																						
	PUP# 8	WITHIN NORMAL LIMITS																						
	PUP# 9	WITHIN NORMAL LIMITS																						
	PUP# 10	WITHIN NORMAL LIMITS																						
	PUP# 11	WITHIN NORMAL LIMITS																						
	PUP# 12	WITHIN NORMAL LIMITS																						
	PUP# 13	WITHIN NORMAL LIMITS																						
	PUP# 14	WITHIN NORMAL LIMITS																						
2535	PUP# 1	WITHIN NORMAL LIMITS																						
	PUP# 2	WITHIN NORMAL LIMITS																						
	PUP# 3	WITHIN NORMAL LIMITS																						
	PUP# 4	WITHIN NORMAL LIMITS																						
	PUP# 5	WITHIN NORMAL LIMITS																						
	PUP# 6	WITHIN NORMAL LIMITS																						
	PUP# 7	WITHIN NORMAL LIMITS																						
	PUP# 8	WITHIN NORMAL LIMITS																						
	PUP# 9	WITHIN NORMAL LIMITS																						
	PUP# 10	WITHIN NORMAL LIMITS																						
2537	PUP# 1	WITHIN NORMAL LIMITS																						
	PUP# 2	WITHIN NORMAL LIMITS																						
	PUP# 3	WITHIN NORMAL LIMITS																						
	PUP# 4	WITHIN NORMAL LIMITS																						

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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				
2538	PUP# 1	WITHIN NORMAL LIMITS																																	
	PUP# 2	WITHIN NORMAL LIMITS																																	
	PUP# 3	WITHIN NORMAL LIMITS																																	
	PUP# 4	WITHIN NORMAL LIMITS																																	
	PUP# 5	WITHIN NORMAL LIMITS																																	
	PUP# 6	WITHIN NORMAL LIMITS																																	
	PUP# 7	WITHIN NORMAL LIMITS																																	
	PUP# 8	WITHIN NORMAL LIMITS																																	
	PUP# 9	WITHIN NORMAL LIMITS																																	
	PUP# 10	WITHIN NORMAL LIMITS																																	
	PUP# 11	WITHIN NORMAL LIMITS																																	
2539	PUP# 1	WITHIN NORMAL LIMITS																																	
	PUP# 2	WITHIN NORMAL LIMITS																																	
	PUP# 3	WITHIN NORMAL LIMITS																																	
	PUP# 4	WITHIN NORMAL LIMITS																																	
	PUP# 5	WITHIN NORMAL LIMITS																																	
	PUP# 6	WITHIN NORMAL LIMITS																																	
	PUP# 7	WITHIN NORMAL LIMITS																																	
	PUP# 8	WITHIN NORMAL LIMITS																																	
	PUP# 9	WITHIN NORMAL LIMITS																																	
	PUP# 10	WITHIN NORMAL LIMITS																																	
	PUP# 11	WITHIN NORMAL LIMITS																																	
	PUP# 12	WITHIN NORMAL LIMITS																																	
	PUP# 13	WITHIN NORMAL LIMITS																																	
	PUP# 14	WITHIN NORMAL LIMITS																																	
2540	PUP# 1	WITHIN NORMAL LIMITS																																	
	PUP# 2	WITHIN NORMAL LIMITS																																	
	PUP# 3	WITHIN NORMAL LIMITS																																	
	PUP# 4	WITHIN NORMAL LIMITS																																	
	PUP# 5	WITHIN NORMAL LIMITS																																	
	PUP# 6	WITHIN NORMAL LIMITS																																	

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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			
2540	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
2541	PUP# 1	WITHIN NORMAL LIMITS																																
	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
	PUP# 12	WITHIN NORMAL LIMITS																																
	PUP# 13	WITHIN NORMAL LIMITS																																
	PUP# 14	WITHIN NORMAL LIMITS																																
2542	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
	PUP# 12	WITHIN NORMAL LIMITS																																
	PUP# 13	WITHIN NORMAL LIMITS																																

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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						
2543	PUP# 1	WITHIN NORMAL LIMITS	P				P																														
	PUP# 2	WITHIN NORMAL LIMITS	P				P																														
	PUP# 3	WITHIN NORMAL LIMITS	P				P																														
	PUP# 4	WITHIN NORMAL LIMITS	P				P																														
	PUP# 5	WITHIN NORMAL LIMITS	P				P																														
	PUP# 6	WITHIN NORMAL LIMITS	P				P																														
	PUP# 7	WITHIN NORMAL LIMITS	P				P																														
	PUP# 8	WITHIN NORMAL LIMITS	P				P																														
	PUP# 9	WITHIN NORMAL LIMITS	P				P																														
	PUP# 10	WITHIN NORMAL LIMITS	P				P																														
	PUP# 11	WITHIN NORMAL LIMITS	P				P																														
	PUP# 12	WITHIN NORMAL LIMITS	P				P																														
	PUP# 13	WITHIN NORMAL LIMITS	P				P																														
	PUP# 14	WITHIN NORMAL LIMITS	P				P																														
	PUP# 15	WITHIN NORMAL LIMITS	P				P																														
	PUP# 16	WITHIN NORMAL LIMITS	P				P																														
2545	PUP# 1	WITHIN NORMAL LIMITS	P				P																														
	PUP# 2	WITHIN NORMAL LIMITS	P				P																														
	PUP# 3	WITHIN NORMAL LIMITS	P				P																														
	PUP# 4	WITHIN NORMAL LIMITS	P				P																														
	PUP# 5	WITHIN NORMAL LIMITS	P				P																														
	PUP# 6	WITHIN NORMAL LIMITS	P				P																														
	PUP# 7	WITHIN NORMAL LIMITS	P				P																														
	PUP# 8	WITHIN NORMAL LIMITS	P				P																														
	PUP# 9	WITHIN NORMAL LIMITS	P				P																														
	PUP# 10	WITHIN NORMAL LIMITS	P				P																														
	PUP# 11	WITHIN NORMAL LIMITS	P				P																														
	PUP# 12	WITHIN NORMAL LIMITS	P				P																														

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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									
2546	PUP# 1	WITHIN NORMAL LIMITS																							1	1	1	1	1	1	1	1	2	2	2	2	2	2		
	PUP# 2	WITHIN NORMAL LIMITS																																						
	PUP# 3	WITHIN NORMAL LIMITS																																						
	PUP# 4	WITHIN NORMAL LIMITS																																						
	PUP# 5	WITHIN NORMAL LIMITS																																						
	PUP# 6	WITHIN NORMAL LIMITS																																						
	PUP# 7	WITHIN NORMAL LIMITS																																						
	PUP# 8	WITHIN NORMAL LIMITS																																						
	PUP# 9	WITHIN NORMAL LIMITS																																						
	PUP# 10	WITHIN NORMAL LIMITS																																						
	PUP# 11	WITHIN NORMAL LIMITS																																						
	PUP# 12	WITHIN NORMAL LIMITS																																						
	PUP# 13	WITHIN NORMAL LIMITS																																						
	PUP# 14	WITHIN NORMAL LIMITS																																						
2547	PUP# 1	WITHIN NORMAL LIMITS																																						
	PUP# 2	WITHIN NORMAL LIMITS																																						
	PUP# 3	WITHIN NORMAL LIMITS																																						
	PUP# 4	WITHIN NORMAL LIMITS																																						
	PUP# 5	WITHIN NORMAL LIMITS																																						
	PUP# 6	WITHIN NORMAL LIMITS																																						
	PUP# 7	WITHIN NORMAL LIMITS																																						
	PUP# 8	WITHIN NORMAL LIMITS																																						
	PUP# 9	WITHIN NORMAL LIMITS																																						
	PUP# 10	WITHIN NORMAL LIMITS																																						
	PUP# 11	WITHIN NORMAL LIMITS																																						
	PUP# 12	WITHIN NORMAL LIMITS																																						
2548	PUP# 1	WITHIN NORMAL LIMITS																																						
	PUP# 2	WITHIN NORMAL LIMITS																																						
	PUP# 3	WITHIN NORMAL LIMITS																																						
	PUP# 4	WITHIN NORMAL LIMITS																																						
	PUP# 5	WITHIN NORMAL LIMITS																																						

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP II 2000 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		
2548	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														
	PUP# 13	WITHIN NORMAL LIMITS	P																														
2550	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														
2551	PUP# 1	WITHIN NORMAL LIMITS	P																														
	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														

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









APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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	
3535	PUP# 1	WITHIN NORMAL LIMITS	P																													
	PUP# 2	WITHIN NORMAL LIMITS	P																													
	PUP# 3	WITHIN NORMAL LIMITS	P																													
	PUP# 4	WITHIN NORMAL LIMITS	P																													
	PUP# 5	WITHIN NORMAL LIMITS	P																													
	PUP# 6	WITHIN NORMAL LIMITS	P																													
	PUP# 7	WITHIN NORMAL LIMITS	P																													
	PUP# 8	WITHIN NORMAL LIMITS	P																													
	PUP# 9	WITHIN NORMAL LIMITS	P																													
	PUP# 10	WITHIN NORMAL LIMITS	P																													
	PUP# 11	WITHIN NORMAL LIMITS	P																													
	PUP# 12	WITHIN NORMAL LIMITS	P																													
	PUP# 13	WITHIN NORMAL LIMITS	P																													
	PUP# 14	WITHIN NORMAL LIMITS	P																													
	PUP# 15	WITHIN NORMAL LIMITS	P																													
3536	PUP# 1	WITHIN NORMAL LIMITS	P																													
	PUP# 2	WITHIN NORMAL LIMITS	P																													
	PUP# 3	WITHIN NORMAL LIMITS	P																													
	PUP# 4	WITHIN NORMAL LIMITS	P																													
	PUP# 5	WITHIN NORMAL LIMITS	P																													
	PUP# 6	WITHIN NORMAL LIMITS	P																													
	PUP# 7	WITHIN NORMAL LIMITS	P																													
	PUP# 8	WITHIN NORMAL LIMITS	P																													
	PUP# 9	WITHIN NORMAL LIMITS	P																													
	PUP# 10	WITHIN NORMAL LIMITS	P																													
	PUP# 11	WITHIN NORMAL LIMITS	P																													
	PUP# 12	WITHIN NORMAL LIMITS	P																													
	PUP# 13	WITHIN NORMAL LIMITS	P																													

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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				
3537	PUP# 1	WITHIN NORMAL LIMITS	P																																
	PUP# 2	WITHIN NORMAL LIMITS	P																																
	PUP# 3	WITHIN NORMAL LIMITS	P																																
	PUP# 4	WITHIN NORMAL LIMITS	P																																
	PUP# 5	WITHIN NORMAL LIMITS	P																																
	PUP# 6	WITHIN NORMAL LIMITS	P																																
	PUP# 7	WITHIN NORMAL LIMITS	P																																
	PUP# 8	WITHIN NORMAL LIMITS	P																																
	PUP# 9	WITHIN NORMAL LIMITS	P																																
	PUP# 10	WITHIN NORMAL LIMITS	P																																
	PUP# 11	WITHIN NORMAL LIMITS	P																																
	PUP# 12	WITHIN NORMAL LIMITS	P																																
	PUP# 13	WITHIN NORMAL LIMITS	P																																
3538	PUP# 1	WITHIN NORMAL LIMITS	P																																
	PUP# 2	WITHIN NORMAL LIMITS	P																																
	PUP# 3	WITHIN NORMAL LIMITS	P																																
	PUP# 4	WITHIN NORMAL LIMITS	P																																
	PUP# 5	WITHIN NORMAL LIMITS	P																																
	PUP# 6	WITHIN NORMAL LIMITS	P																																
	PUP# 7	WITHIN NORMAL LIMITS	P																																
	PUP# 8	WITHIN NORMAL LIMITS	P																																
	PUP# 9	WITHIN NORMAL LIMITS	P																																
	PUP# 10	WITHIN NORMAL LIMITS	P																																
	PUP# 11	WITHIN NORMAL LIMITS	P																																
	PUP# 12	WITHIN NORMAL LIMITS	P																																
3539	PUP# 1	WITHIN NORMAL LIMITS	P																																
	PUP# 2	WITHIN NORMAL LIMITS	P																																
	PUP# 3	WITHIN NORMAL LIMITS	P																																
	PUP# 4	WITHIN NORMAL LIMITS	P																																
	PUP# 5	WITHIN NORMAL LIMITS	P																																
	PUP# 6	WITHIN NORMAL LIMITS	P																																

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL OBSERVATIONS DURING LACTATION

GROUP III 10000 MG/M3

FEMALE#	OBSERVATIONS	DAY OF LACTATION																												
			0	1	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2			
3539	PUP# 7	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 8	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 9	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 10	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 11	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 12	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 13	WITHIN NORMAL LIMITS	P							P											P							P		
3540	PUP# 1	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 2	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 3	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 4	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 5	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 6	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 7	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 8	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 9	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 10	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 11	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 12	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 13	WITHIN NORMAL LIMITS	P							P											P							P		
3541	PUP# 1	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 2	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 3	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 4	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 5	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 6	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 7	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 8	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 9	WITHIN NORMAL LIMITS	P							P											P							P		
	PUP# 10	WITHIN NORMAL LIMITS	P							P											P									
	PUP# 11	WITHIN NORMAL LIMITS	P							P											P							P		

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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																									
3541	PUP# 12	WITHIN NORMAL LIMITS																							1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2																
	PUP# 13	WITHIN NORMAL LIMITS																																																						
	PUP# 14	WITHIN NORMAL LIMITS																																																						
3542	PUP# 1	WITHIN NORMAL LIMITS																																																						
	PUP# 2	WITHIN NORMAL LIMITS																																																						
	PUP# 3	WITHIN NORMAL LIMITS																																																						
	PUP# 4	WITHIN NORMAL LIMITS																																																						
	PUP# 5	WITHIN NORMAL LIMITS																																																						
	PUP# 6	WITHIN NORMAL LIMITS																																																						
	PUP# 7	WITHIN NORMAL LIMITS																																																						
	PUP# 8	WITHIN NORMAL LIMITS																																																						
	PUP# 9	WITHIN NORMAL LIMITS																																																						
	PUP# 10	WITHIN NORMAL LIMITS																																																						
3543	PUP# 1	WITHIN NORMAL LIMITS																																																						
	PUP# 2	WITHIN NORMAL LIMITS																																																						
	PUP# 3	WITHIN NORMAL LIMITS																																																						
	PUP# 4	WITHIN NORMAL LIMITS																																																						
	PUP# 5	WITHIN NORMAL LIMITS																																																						
	PUP# 6	WITHIN NORMAL LIMITS																																																						
	PUP# 7	WITHIN NORMAL LIMITS																																																						
	PUP# 8	WITHIN NORMAL LIMITS																																																						
	PUP# 9	WITHIN NORMAL LIMITS																																																						
	PUP# 10	WITHIN NORMAL LIMITS																																																						
	PUP# 11	WITHIN NORMAL LIMITS																																																						
	PUP# 12	WITHIN NORMAL LIMITS																																																						
	PUP# 13	WITHIN NORMAL LIMITS																																																						
	PUP# 14	WITHIN NORMAL LIMITS																																																						
	PUP# 15	WITHIN NORMAL LIMITS																																																						

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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							
3544	PUP# 1	WITHIN NORMAL LIMITS	P					P																														
	PUP# 2	WITHIN NORMAL LIMITS	P					P																														
	PUP# 3	WITHIN NORMAL LIMITS	P					P																														
	PUP# 4	WITHIN NORMAL LIMITS	P					P																														
	PUP# 5	WITHIN NORMAL LIMITS	P					P																														
	PUP# 6	WITHIN NORMAL LIMITS	P					P																														
	PUP# 7	WITHIN NORMAL LIMITS	P					P																														
	PUP# 8	WITHIN NORMAL LIMITS	P					P																														
	PUP# 9	WITHIN NORMAL LIMITS	P					P																														
	PUP# 10	WITHIN NORMAL LIMITS	P					P																														
	PUP# 11	WITHIN NORMAL LIMITS	P					P																														
	PUP# 12	WITHIN NORMAL LIMITS	P					P																														
	PUP# 13	WITHIN NORMAL LIMITS	P					P																														
3545	PUP# 1	WITHIN NORMAL LIMITS	P					P																														
	PUP# 2	WITHIN NORMAL LIMITS	P					P																														
	PUP# 3	WITHIN NORMAL LIMITS	P					P																														
	PUP# 4	WITHIN NORMAL LIMITS	P					P																														
	PUP# 5	WITHIN NORMAL LIMITS	P					P																														
	PUP# 6	WITHIN NORMAL LIMITS	P					P																														
	PUP# 7	WITHIN NORMAL LIMITS	P					P																														
	PUP# 8	WITHIN NORMAL LIMITS	P					P																														
	PUP# 9	WITHIN NORMAL LIMITS	P					P																														
	PUP# 10	WITHIN NORMAL LIMITS	P					P																														
	PUP# 11	WITHIN NORMAL LIMITS	P					P																														
	PUP# 12	WITHIN NORMAL LIMITS	P					P																														
	PUP# 13	WITHIN NORMAL LIMITS	P					P																														
3546	PUP# 1	WITHIN NORMAL LIMITS	P					P																														
	PUP# 2	WITHIN NORMAL LIMITS	P					P																														
	PUP# 3	WITHIN NORMAL LIMITS	P					P																														
	PUP# 4	WITHIN NORMAL LIMITS	P					P																														
	PUP# 5	WITHIN NORMAL LIMITS	P					P																														

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



APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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			
3546	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
	PUP# 12	WITHIN NORMAL LIMITS																																
	PUP# 13	WITHIN NORMAL LIMITS																																
	PUP# 14	WITHIN NORMAL LIMITS																																
3547	PUP# 1	WITHIN NORMAL LIMITS																																
	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
3548	PUP# 1	WITHIN NORMAL LIMITS																																
	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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														
3549	PUP# 2	WITHIN NORMAL LIMITS																							1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2					
	PUP# 3	WITHIN NORMAL LIMITS																																											
	PUP# 4	WITHIN NORMAL LIMITS																																											
	PUP# 5	WITHIN NORMAL LIMITS																																											
	PUP# 6	WITHIN NORMAL LIMITS																																											
	PUP# 7	WITHIN NORMAL LIMITS																																											
	PUP# 8	WITHIN NORMAL LIMITS																																											
	PUP# 9	WITHIN NORMAL LIMITS																																											
	PUP# 10	WITHIN NORMAL LIMITS																																											
	PUP# 11	WITHIN NORMAL LIMITS																																											
	PUP# 12	WITHIN NORMAL LIMITS																																											
	PUP# 13	WITHIN NORMAL LIMITS																																											
	PUP# 14	WITHIN NORMAL LIMITS																																											
	PUP# 15	WITHIN NORMAL LIMITS																																											
	3550	PUP# 2	WITHIN NORMAL LIMITS																																										
PUP# 3		WITHIN NORMAL LIMITS																																											
PUP# 4		WITHIN NORMAL LIMITS																																											
PUP# 5		WITHIN NORMAL LIMITS																																											
PUP# 6		WITHIN NORMAL LIMITS																																											
PUP# 7		WITHIN NORMAL LIMITS																																											
PUP# 8		WITHIN NORMAL LIMITS																																											
PUP# 9		WITHIN NORMAL LIMITS																																											
PUP# 10		WITHIN NORMAL LIMITS																																											
PUP# 11		WITHIN NORMAL LIMITS																																											
PUP# 12		WITHIN NORMAL LIMITS																																											
PUP# 13		WITHIN NORMAL LIMITS																																											
PUP# 14		WITHIN NORMAL LIMITS																																											
PUP# 15		WITHIN NORMAL LIMITS																																											
PUP# 16		WITHIN NORMAL LIMITS																																											
PUP# 17		WITHIN NORMAL LIMITS																																											

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

APPENDIX T F1 GENERATION

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

INDIVIDUAL PUP CLINICAL 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				
3551	PUP# 1	WITHIN NORMAL LIMITS																																	
	PUP# 2	WITHIN NORMAL LIMITS																																	
	PUP# 3	WITHIN NORMAL LIMITS																																	
	PUP# 4	WITHIN NORMAL LIMITS																																	
	PUP# 5	WITHIN NORMAL LIMITS																																	
	PUP# 6	WITHIN NORMAL LIMITS																																	
	PUP# 7	WITHIN NORMAL LIMITS																																	
	PUP# 8	WITHIN NORMAL LIMITS																																	
	PUP# 9	WITHIN NORMAL LIMITS																																	
	PUP# 10	WITHIN NORMAL LIMITS																																	
	PUP# 11	WITHIN NORMAL LIMITS																																	
	PUP# 12	WITHIN NORMAL LIMITS																																	
	PUP# 13	WITHIN NORMAL LIMITS																																	
	PUP# 14	WITHIN NORMAL LIMITS																																	
	PUP# 15	WITHIN NORMAL LIMITS																																	

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

APPENDIX T F1 GENERATION

GASOLINE DIPE 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																																
			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			
4526	PUP# 1	WITHIN NORMAL LIMITS																																
	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
	PUP# 12	WITHIN NORMAL LIMITS																																
	PUP# 13	WITHIN NORMAL LIMITS																																
4527	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																
	PUP# 8	WITHIN NORMAL LIMITS																																
	PUP# 9	WITHIN NORMAL LIMITS																																
	PUP# 10	WITHIN NORMAL LIMITS																																
	PUP# 11	WITHIN NORMAL LIMITS																																
	PUP# 12	WITHIN NORMAL LIMITS																																
4528	PUP# 1	WITHIN NORMAL LIMITS																																
	PUP# 2	WITHIN NORMAL LIMITS																																
	PUP# 3	WITHIN NORMAL LIMITS																																
	PUP# 4	WITHIN NORMAL LIMITS																																
	PUP# 5	WITHIN NORMAL LIMITS																																
	PUP# 6	WITHIN NORMAL LIMITS																																
	PUP# 7	WITHIN NORMAL LIMITS																																

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

APPENDIX T F1 GENERATION

GASOLINE DIPE 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																															
			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		
4528	PUP# 8	WITHIN NORMAL LIMITS																															
	PUP# 9	WITHIN NORMAL LIMITS																															
	PUP# 10	WITHIN NORMAL LIMITS																															
	PUP# 11	WITHIN NORMAL LIMITS																															
	PUP# 12	WITHIN NORMAL LIMITS																															
	PUP# 13	WITHIN NORMAL LIMITS																															
	PUP# 14	WITHIN NORMAL LIMITS																															
	PUP# 15	WITHIN NORMAL LIMITS																															
4529	PUP# 1	WITHIN NORMAL LIMITS																															
	PUP# 2	WITHIN NORMAL LIMITS																															
	PUP# 3	WITHIN NORMAL LIMITS																															
	PUP# 4	WITHIN NORMAL LIMITS																															
	PUP# 5	WITHIN NORMAL LIMITS																															
	PUP# 6	WITHIN NORMAL LIMITS																															
	PUP# 7	WITHIN NORMAL LIMITS																															
	PUP# 8	WITHIN NORMAL LIMITS																															
	PUP# 9	WITHIN NORMAL LIMITS																															
	PUP# 10	WITHIN NORMAL LIMITS																															
	PUP# 11	WITHIN NORMAL LIMITS																															
	PUP# 12	WITHIN NORMAL LIMITS																															
	PUP# 13	WITHIN NORMAL LIMITS																															
	PUP# 14	WITHIN NORMAL LIMITS																															
	PUP# 15	WITHIN NORMAL LIMITS																															
4530	PUP# 1	WITHIN NORMAL LIMITS																															
	PUP# 2	WITHIN NORMAL LIMITS																															
	PUP# 3	WITHIN NORMAL LIMITS																															
	PUP# 4	WITHIN NORMAL LIMITS																															
	PUP# 5	WITHIN NORMAL LIMITS																															
	PUP# 6	WITHIN NORMAL LIMITS																															
	PUP# 7	WITHIN NORMAL LIMITS																															
	PUP# 8	WITHIN NORMAL LIMITS																															

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

APPENDIX T F1 GENERATION

GASOLINE DIPE 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																														
			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	
4530	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P																								
	PUP# 12	WITHIN NORMAL LIMITS	P					P																								
	PUP# 13	WITHIN NORMAL LIMITS	P					P																								
	PUP# 14	WITHIN NORMAL LIMITS	P					P																								
	PUP# 15	WITHIN NORMAL LIMITS	P					P																								
4531	PUP# 1	WITHIN NORMAL LIMITS	P					P																								
	PUP# 2	WITHIN NORMAL LIMITS	P					P																								
	PUP# 3	WITHIN NORMAL LIMITS	P					P																								
	PUP# 4	WITHIN NORMAL LIMITS	P					P																								
	PUP# 5	WITHIN NORMAL LIMITS	P					P																								
	PUP# 6	WITHIN NORMAL LIMITS	P					P																								
	PUP# 7	WITHIN NORMAL LIMITS	P					P																								
	PUP# 8	WITHIN NORMAL LIMITS	P					P																								
	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								
	PUP# 11	WITHIN NORMAL LIMITS	P					P																								
	PUP# 12	WITHIN NORMAL LIMITS	P					P																								
	PUP# 13	WITHIN NORMAL LIMITS	P					P																								
	PUP# 14	WITHIN NORMAL LIMITS	P					P																								
4532	PUP# 1	WITHIN NORMAL LIMITS	P					P																								
	PUP# 2	WITHIN NORMAL LIMITS	P					P																								
	PUP# 3	WITHIN NORMAL LIMITS	P					P																								
	PUP# 4	WITHIN NORMAL LIMITS	P					P																								
	PUP# 5	WITHIN NORMAL LIMITS	P					P																								
	PUP# 6	WITHIN NORMAL LIMITS	P					P																								
	PUP# 7	WITHIN NORMAL LIMITS	P					P																								
	PUP# 8	WITHIN NORMAL LIMITS	P					P																								
	PUP# 9	WITHIN NORMAL LIMITS	P					P																								
	PUP# 10	WITHIN NORMAL LIMITS	P					P																								

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

APPENDIX T F1 GENERATION

GASOLINE DIPE 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																														
			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	
4532	PUP# 11	WITHIN NORMAL LIMITS																														
	PUP# 12	WITHIN NORMAL LIMITS																														
	PUP# 13	WITHIN NORMAL LIMITS																														
	PUP# 14	WITHIN NORMAL LIMITS																														
4533	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	4534	PUP# 3	WITHIN NORMAL LIMITS																													
PUP# 4		WITHIN NORMAL LIMITS																														
PUP# 5		WITHIN NORMAL LIMITS																														
PUP# 6		WITHIN NORMAL LIMITS																														
PUP# 7		WITHIN NORMAL LIMITS																														
PUP# 8		WITHIN NORMAL LIMITS																														
PUP# 9		WITHIN NORMAL LIMITS																														
PUP# 10		WITHIN NORMAL LIMITS																														
PUP# 11		WITHIN NORMAL LIMITS																														
PUP# 12		WITHIN NORMAL LIMITS																														
4535		PUP# 2	WITHIN NORMAL LIMITS																													
		PUP# 3	WITHIN NORMAL LIMITS																													
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														

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

## APPENDIX T F1 GENERATION

GASOLINE DIPE 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																																		
			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					
4535	PUP# 10	WITHIN NORMAL LIMITS																																		
	PUP# 11	WITHIN NORMAL LIMITS																																		
	PUP# 12	WITHIN NORMAL LIMITS																																		
	PUP# 13	WITHIN NORMAL LIMITS																																		
	PUP# 14	WITHIN NORMAL LIMITS																																		
	PUP# 15	WITHIN NORMAL LIMITS																																		
	PUP# 16	WITHIN NORMAL LIMITS																																		
4536	PUP# 1	WITHIN NORMAL LIMITS																																		
	PUP# 2	WITHIN NORMAL LIMITS																																		
	PUP# 3	WITHIN NORMAL LIMITS																																		
	PUP# 4	WITHIN NORMAL LIMITS																																		
	PUP# 5	WITHIN NORMAL LIMITS																																		
	PUP# 6	WITHIN NORMAL LIMITS																																		
	PUP# 7	WITHIN NORMAL LIMITS																																		
	PUP# 8	WITHIN NORMAL LIMITS																																		
	PUP# 9	WITHIN NORMAL LIMITS																																		
	PUP# 10	WITHIN NORMAL LIMITS																																		
	PUP# 11	WITHIN NORMAL LIMITS																																		
	PUP# 12	WITHIN NORMAL LIMITS																																		
	PUP# 13	WITHIN NORMAL LIMITS																																		
	PUP# 14	WITHIN NORMAL LIMITS																																		
4537	PUP# 1	WITHIN NORMAL LIMITS																																		
	PUP# 2	WITHIN NORMAL LIMITS																																		
	PUP# 3	WITHIN NORMAL LIMITS																																		
	PUP# 4	WITHIN NORMAL LIMITS																																		
	PUP# 5	WITHIN NORMAL LIMITS																																		
	PUP# 6	WITHIN NORMAL LIMITS																																		
	PUP# 7	WITHIN NORMAL LIMITS																																		
	PUP# 8	WITHIN NORMAL LIMITS																																		
	PUP# 9	WITHIN NORMAL LIMITS																																		
	PUP# 10	WITHIN NORMAL LIMITS																																		

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





APPENDIX T F1 GENERATION

GASOLINE DIPE 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																														
			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	
4540	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
	PUP# 12	WITHIN NORMAL LIMITS																														
	PUP# 13	WITHIN NORMAL LIMITS																														
4541	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														
	PUP# 10	WITHIN NORMAL LIMITS																														
	PUP# 11	WITHIN NORMAL LIMITS																														
	PUP# 12	WITHIN NORMAL LIMITS																														
4542	PUP# 1	WITHIN NORMAL LIMITS																														
	PUP# 2	WITHIN NORMAL LIMITS																														
	PUP# 3	WITHIN NORMAL LIMITS																														
	PUP# 4	WITHIN NORMAL LIMITS																														
	PUP# 5	WITHIN NORMAL LIMITS																														
	PUP# 6	WITHIN NORMAL LIMITS																														
	PUP# 7	WITHIN NORMAL LIMITS																														
	PUP# 8	WITHIN NORMAL LIMITS																														
	PUP# 9	WITHIN NORMAL LIMITS																														

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





APPENDIX T F1 GENERATION

GASOLINE DIPE 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																															
			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		
4549	PUP# 12	WITHIN NORMAL LIMITS	P																														
4550	PUP# 1	WITHIN NORMAL LIMITS	P																														
	PUP# 2	WITHIN NORMAL LIMITS	P																														
	PUP# 3	WITHIN NORMAL LIMITS	P																														
	PUP# 4	WITHIN NORMAL LIMITS	P																														
	PUP# 5	WITHIN NORMAL LIMITS	P																														
	PUP# 6	WITHIN NORMAL LIMITS	P																														
	PUP# 7	WITHIN NORMAL LIMITS	P																														
	PUP# 8	WITHIN NORMAL LIMITS	P																														
	PUP# 9	WITHIN NORMAL LIMITS	P																														
	PUP# 10	WITHIN NORMAL LIMITS	P																														
	PUP# 11	WITHIN NORMAL LIMITS	P																														
	PUP# 12	WITHIN NORMAL LIMITS	P																														
	PUP# 13	WITHIN NORMAL LIMITS	P																														
	PUP# 14	WITHIN NORMAL LIMITS	P																														
	PUP# 15	WITHIN NORMAL LIMITS	P																														

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

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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 1							
		FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1526	8.3	8.2	8.7	8.6	8.9	7.6	7.8	8.4	8.6	8.5	8.4	8.0	7.7										
1527	8.0	8.6	8.0	7.9	8.1	7.5	7.4	8.6	8.3	8.4	7.3	7.7	8.3										
1528	7.4	8.3	7.6	7.9	6.0	8.5	8.3	5.3	7.1	7.8													
1529	7.6	7.7	7.5	8.0	8.1	7.1	7.7	7.4	7.2	7.4	7.1	M	7.9										
1530	8.5	8.2	8.9	8.4	8.2	8.7																	
1531	5.9	6.2	6.2	6.3	6.3	6.2	5.8	6.1	6.0	5.5	5.9	5.3	5.5	5.6									
1532	6.4	6.9	6.2	5.8	6.6	6.5	6.9	6.9	6.8	6.3	6.3	6.0	5.8	6.0									
1533	7.5	S	7.4	7.7	7.6	7.7	8.3	7.6	6.7	7.3	7.0	7.7	7.7	7.3	7.6	7.0							
1534	NOT PREGNANT																						
1535	8.3	8.4	8.8	8.1	8.0	8.5	D	8.7	7.8	8.4	8.3	8.2											
1536	7.9	8.8	7.9	8.1	8.3	8.3	7.8	8.0	7.9	6.9	6.8	7.1	8.3										
1537	7.0	7.1	7.0	7.9	6.7	7.0	6.9	7.3	7.2	6.3	7.1	6.6	7.0	6.5	7.0	7.3	6.8						
1538	NOT PREGNANT																						
1539	7.5	S	8.3	7.2	7.3	8.1	7.6	7.9	7.1	6.9	8.0	7.1	7.6	6.9									
1540	NOT PREG., NO MATING DATE																						
1541	7.3	7.2	8.0	7.1	7.4	7.3	7.9	6.8	6.5	6.7	7.3	6.9	7.8	7.0	7.9	7.4							
1542	7.5	8.2	7.7	7.8	7.7	7.7	7.5	7.8	6.7	7.2	7.1	7.2											
1543	7.3	7.7	7.7	7.7	7.5	8.0	7.7	7.4	7.7	7.1	7.3	6.9	6.9	6.8	6.8	5.8							
1544	7.5	S	8.4	7.9	8.1	7.7	7.4	7.7	7.1	7.6	7.3	6.9	7.5	7.0									
1545	6.5	7.0	6.5	7.0	5.9	6.3	6.6	7.4	6.4	6.4	6.8	6.9	6.2	6.4	5.4	5.6							
1546	7.6	8.2	7.8	8.0	8.1	8.1	7.9	7.4	7.7	6.7	7.0	7.7	7.2	7.1									
1547	8.4	8.6	8.8	8.5	8.0	8.5	7.9																
1548	NOT PREGNANT																						
1549	5.2	S	5.2	5.3	5.6	4.8	5.3	5.6	6.1	5.0	5.1	4.7	4.8	4.9	4.8								
1550	7.7	8.0	8.2	M	7.7	7.9	7.8	8.1	8.4	8.3	6.7	7.0	6.4										
1551	7.4	8.0	7.6	7.7	7.1	7.0	7.1	7.6	7.4	7.0													
MEAN	7.4																						
S.D.	0.81																						
N	22																						

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
2526	6.9	7.2	7.3	6.4	6.5	7.5	7.1	6.7	7.0	7.7	7.1	6.6	7.2	6.3	6.4	6.3	6.5						
2527	6.3	6.8	6.5	5.6	7.0	7.0	6.9	6.5	6.6	6.2	6.2	5.4	6.1	5.6	5.7								
2528	7.2	7.7	7.6	6.9	7.8	7.1	7.1	7.4	7.2	7.4	6.5	7.9	7.0	7.2	6.8	6.5	6.7						
2529	7.4	7.9	7.6	7.5	7.5	7.5	7.6	7.4	7.9	7.1	5.9	7.4	7.4	7.1									
2530	7.5	S	7.7	7.4	7.6	8.2	8.2	7.7	7.3	7.6	7.2	7.3	7.4	7.5	7.0								
2531	6.8	7.0	7.0	7.2	6.8	6.8	6.7	7.1	7.0	6.7	6.9	6.7	6.3	6.4	M	6.9	6.2						
2532	7.3	7.4	7.7	7.7	6.7	7.6	7.5	7.3	7.1	7.4	7.2	7.0	7.2	7.2									
2533	7.0	7.0	7.8	7.9	7.1	6.9	7.4	6.9	6.3	6.9	7.4	6.8	6.7	6.0	6.9	6.5	7.2	7.1					
2534	7.4	6.8	6.5	7.0	8.1	7.3	8.0	8.2	7.2	8.4	6.5	6.7	7.8	7.5	7.3								
2535	7.4	7.0	6.9	7.3	7.9	8.2	7.7	7.3	7.9	7.4	6.8												
2536	HUMANE SACRIFICE																						
2537	8.2	7.5	7.8	8.9	8.5																		
2538	8.1	8.2	8.5	8.2	D	8.7	8.0	7.4	M	7.8	8.2	8.2											
2539	7.0	8.0	7.6	7.2	7.5	7.2	7.2	6.9	7.3	7.0	6.7	6.5	6.0	6.2	6.4								
2540	7.7	7.3	7.8	8.0	8.2	7.4	7.7	8.2	7.7	7.2	7.5	7.4											
2541	7.5	7.1	8.4	7.8	8.2	7.0	6.9	7.0	8.2	7.4	8.0	7.1	7.3	7.6	7.4								
2542	7.2	D	7.1	7.7	7.6	7.0	8.0	6.9	6.5	6.9	7.1	7.6	6.4	7.2									
2543	6.8	7.1	7.2	7.3	7.2	7.2	5.7	7.0	7.1	6.5	6.0	6.6	7.0	7.2	6.8	6.5	7.0						
2544	NOT PREG., NO MATING DATE																						
2545	6.7	6.9	7.0	7.1	5.7	6.9	6.3	7.0	7.2	7.1	6.1	7.3	6.2										
2546	7.4	7.5	7.6	7.6	5.9	7.5	7.3	8.0	7.9	7.6	7.5	7.4	7.0	7.5	7.2								
2547	6.6	7.1	6.8	7.2	6.4	6.1	6.6	6.4	6.6	6.5	6.5	6.3	6.6										
2548	7.0	7.0	7.2	7.3	7.3	7.9	7.4	6.9	7.4	7.4	6.6	7.2	4.9	6.5									
2549	NOT PREG., NO MATING DATE																						
2550	6.8	S	5.0	9.1	5.4	6.4	7.7	7.0	6.5	6.2	8.0	7.8	6.1										
2551	7.6	7.6	7.5	7.6	8.0	8.0	7.8	7.3	7.7	7.7	7.5	7.1	7.3										
MEAN	7.2																						
S.D.	0.46																						
N	23																						

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		3526	NOT PREG., NO MATING DATE																					
		3527	6.7	6.7	7.1	6.7	6.9	6.3	6.6	7.4	7.0	7.3	7.1	6.2	6.1	6.5	6.5	6.7	6.5	6.7	6.5			
		3528	7.4	7.2	7.1	7.6	8.0	8.1	7.5	6.9	6.6	7.1	7.3	6.6	7.7	7.7	7.1	7.9						
		3529	6.9	M	7.1	7.3	6.7	7.1	6.8	7.3	7.0	6.9	7.2	6.8	7.1	6.8	5.4	6.4						
		3530	NOT PREG., NO MATING DATE																					
		3531	6.8	7.1	6.7	6.5	7.2	7.2	7.3	6.6	7.4	6.0	6.9	6.0	6.7	7.1								
		3532	7.6	7.5	7.5	7.9	7.9	6.7	8.0	7.7	6.8	8.1	7.6	7.2	7.8									
		3533	6.1	6.3	6.1	5.8	6.2	6.2	6.6	6.1	6.1	6.1	6.1	5.8	5.9	5.5	6.0	6.5						
		3534	TOTAL LITTER LOSS																					
		3535	6.3	6.8	D	6.3	7.1	7.1	6.9	7.0	6.4	5.9	6.5	6.0	5.2	6.1	5.8	5.7						
		3536	6.8	5.7	7.4	7.3	7.1	7.1	7.2	6.9	6.5	7.2	6.3	6.5	6.5	6.4								
		3537	7.1	7.4	7.1	7.1	6.9	7.3	7.6	6.9	7.4	7.1	7.0	7.0	6.3	6.9								
		3538	7.3	7.4	7.3	7.0	7.3	7.3	7.2	8.3	6.7	7.0	7.2	7.8	6.9									
		3539	6.7	7.1	6.7	6.6	7.0	6.8	7.0	6.5	6.5	6.4	6.4	6.5	6.9	6.8								
		3540	7.6	7.2	7.6	7.7	7.7	7.9	8.0	7.9	7.4	7.6	7.8	7.4	7.5	7.3								
		3541	7.3	7.3	7.5	8.3	6.1	7.9	8.3	7.6	8.1	4.0	7.6	6.8	7.5	7.6	7.6							
		3542	8.1	8.4	8.3	9.0	8.1	8.5	7.9	7.9	8.4	7.4	6.8											
		3543	6.5	7.2	7.0	6.4	7.1	5.6	4.5	6.8	6.7	6.6	6.9	6.0	6.5	5.7	6.6	7.2						
		3544	6.0	6.1	5.9	6.1	6.2	6.4	5.9	6.5	6.0	5.7	6.1	6.0	5.1	5.7								
		3545	7.3	7.3	8.1	7.6	7.4	7.9	6.6	6.9	7.3	6.4	8.3	7.3	7.3	7.0								
		3546	7.2	7.0	6.8	7.7	7.2	7.4	7.7	7.6	7.3	6.7	6.9	6.6	7.9	7.0	7.1							
		3547	7.1	8.0	7.5	6.8	7.3	7.2	7.5	7.1	6.7	6.7	6.4											
		3548	8.0	8.6	8.3	8.1	8.7	8.0	8.2	7.8	7.6	7.7	8.0	7.5										
		3549	7.9	S	8.5	8.1	8.3	8.1	7.5	8.0	6.8	7.5	7.9	8.1	8.5	7.7	7.5	7.8						
		3550	5.8	S	6.0	6.4	5.9	6.5	5.3	6.0	5.9	5.9	5.2	5.4	5.9	5.7	5.0	5.9	5.6	5.7				
		3551	7.5	7.3	7.8	7.8	7.9	7.9	8.0	7.3	7.5	7.7	7.2	7.1	7.3	7.5	7.2	7.3						
MEAN	7.0																							
S.D.	0.63																							
N	23																							

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING



## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
4526	7.4	7.3	8.0	7.8	7.8	7.2	7.4	7.6	7.4	7.0	6.9	7.2	7.2	7.8									
4527	7.8	S	8.1	7.6	8.3	7.7	7.4	8.2	7.4	7.7	7.7	7.8	8.0										
4528	6.6	7.0	6.5	6.3	7.2	6.9	7.0	6.8	6.9	6.6	6.3	6.5	6.4	6.5	5.3	6.1							
4529	6.5	6.3	6.5	6.8	7.2	6.0	6.3	6.4	6.4	6.5	6.8	6.8	6.2	6.9	6.4	6.7							
4530	6.1	6.2	5.9	5.9	6.7	6.0	6.3	6.0	5.9	6.1	6.3	5.9	6.0	6.9	5.9	6.0							
4531	7.0	7.3	7.0	6.9	7.6	6.9	7.9	7.4	7.0	6.7	6.4	6.6	7.5	6.8	6.0								
4532	7.5	7.6	7.1	8.1	7.3	7.8	8.6	8.8	8.1	6.8	7.7	6.5	6.5	7.5	6.8								
4533	6.9	S	6.7	7.4	7.3	7.5	5.4	6.7	6.5	7.3													
4534	7.9	S	S	7.7	8.1	8.1	8.6	7.6	7.9	8.3	7.4	6.9	8.1										
4535	7.3	S	7.5	7.5	7.2	7.2	7.5	6.5	8.0	8.1	7.6	7.3	7.2	6.7	7.0	7.1	7.4						
4536	7.5	6.9	7.4	10.5	7.3	7.4	7.7	6.9	7.3	6.7	7.5	8.0	7.4	7.0	6.7								
4537	7.7	8.0	8.0	7.6	8.4	8.2	6.9	7.4	7.5	7.7	7.9	7.2	7.5	8.4	7.7								
4538	7.3	S	7.3	7.4	7.5	7.9	7.2	7.2	6.9	7.6	6.5	7.0	6.3	7.3	8.1	7.4							
4539	7.5	M	4.0	7.3	9.4	7.9	7.0	8.7	8.0	7.4													
4540	7.5	7.9	7.7	7.7	7.7	7.7	7.2	7.4	8.2	7.2	7.6	7.3	7.0	7.3									
4541	7.4	7.2	7.3	7.2	7.5	7.9	7.6	7.8	6.8	7.1	7.3	7.2	7.5										
4542	8.2	8.7	8.6	7.7	8.6	7.6	8.0	8.3	8.2	8.2													
4543	NOT PREG., NO MATING DATE																						
4544	NOT PREG., NO MATING DATE																						
4545	7.6	7.7	7.8	8.2	7.9	7.9	7.9	7.8	7.5	6.4	7.4	6.7											
4546	7.2	S	D	S	7.1	8.2	7.5	7.4	7.7	6.9	6.9	6.7	6.9	7.6	6.4								
4547	7.3	7.6	7.5	7.8	7.6	7.2	8.3	7.3	7.0	7.6	7.4	7.2	6.7	7.1	6.3	6.6							
4548	6.8	6.7	6.7	6.4	7.0	7.0	7.2	6.7	7.0	6.7	6.7	6.6	6.5	6.5	7.2								
4549	7.2	7.4	7.8	6.6	7.4	7.4	7.1	7.5	6.8	6.7	7.2	7.1	7.2										
4550	6.8	6.9	7.4	7.0	6.7	7.1	6.6	6.5	7.2	6.9	7.2	6.6	6.8	6.3	6.8	6.5							
4551	NOT PREGNANT																						
MEAN	7.3																						
S.D.	0.49																						
N	22																						

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
1526	11.1	11.3	11.6	11.2	11.9	10.0	10.4	11.6	11.5	11.3	10.9	10.6	10.3							
1527	12.1	12.6	12.3	12.1	12.0	11.8	11.2	12.5	12.7	12.3	10.9	12.0	12.4							
1528	11.8	13.0	12.5	12.8	8.0	13.5	13.3	D	8.8	12.4										
1529	10.9	11.0	10.7	11.7	11.2	10.3	11.1	10.8	10.7	11.3	10.7	M	10.6							
1530	14.1	14.3	14.7	14.3	13.7	13.5														
1531	8.2	8.6	8.2	8.6	8.9	8.6	8.4	8.4	8.4	8.1	7.9	6.9	7.9	7.9						
1532	9.6	10.2	9.6	9.0	9.6	10.1	10.2	10.6	9.5	9.4	9.0	9.4	8.9	9.2						
1533	11.6	S	12.1	11.3	12.3	11.7	12.4	11.6	10.7	11.7	10.8	11.7	11.3	11.7	11.5	10.9				
1534	NOT PREGNANT																			
1535	12.0	11.7	12.7	11.5	11.8	12.6	D	12.2	10.9	12.4	12.1	12.4								
1536	13.0	14.1	13.1	13.2	13.5	13.6	13.0	13.1	12.8	12.4	11.4	12.1	13.2							
1537	10.3	10.7	11.0	11.2	9.7	11.2	10.0	10.3	10.4	10.0	10.9	9.6	10.3	10.3	9.3	9.9	9.9			
1538	NOT PREGNANT																			
1539	12.2	S	13.5	12.2	12.0	12.6	12.1	13.0	12.0	11.4	12.0	11.4	12.3	11.4						
1540	NOT PREG., NO MATING DATE																			
1541	11.4	12.0	12.5	12.0	11.5	12.2	12.0	10.8	11.0	10.3	11.9	9.9	11.1	11.7	11.0	M				
1542	11.3	11.9	12.2	11.6	11.6	11.4	10.7	11.4	10.3	11.0	11.4	10.6								
1543	10.1	10.3	10.7	11.2	10.6	11.0	10.0	10.4	10.6	9.5	10.6	9.8	9.7	9.4	9.6	8.5				
1544	11.3	S	12.2	11.7	11.9	11.9	11.5	11.0	10.7	11.0	11.2	10.1	11.1	11.3						
1545	9.9	10.3	10.1	10.8	9.9	9.8	10.3	11.0	9.5	9.6	9.9	10.5	10.0	9.9	8.8	8.8				
1546	11.0	12.1	10.9	10.9	11.2	12.0	11.0	10.4	11.5	10.2	10.9	11.0	10.8	10.0						
1547	14.2	14.0	14.3	14.9	13.4	14.4	14.0													
1548	NOT PREGNANT																			
1549	TOTAL LITTER LOSS																			
1550	11.8	12.0	12.8	M	12.5	12.5	11.8	12.9	12.2	11.9	11.1	11.0	9.5							
1551	11.3	12.0	11.8	12.2	11.0	11.1	11.0	11.5	11.0	10.5										
MEAN	11.4																			
S.D.	1.38																			
N	21																			

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
2526	9.4	9.4	10.4	9.1	9.9	9.4	9.7	8.9	8.7	10.4	9.9	9.6	9.9	9.1	8.0	9.1	8.5							
2527	9.4	10.5	10.2	8.5	10.2	10.7	9.3	9.5	8.8	9.3	9.4	7.6	9.6	8.4	9.0									
2528	8.9	8.8	8.6	8.3	9.8	9.7	9.7	8.2	9.5	9.2	7.6	9.6	8.2	8.9	8.6	9.0	8.1							
2529	10.3	10.7	10.3	10.5	10.5	10.7	10.7	10.3	10.9	9.8	8.5	10.5	9.9	10.1										
2530	10.8	S	11.7	10.8	10.9	11.1	11.5	10.6	10.3	10.7	10.6	10.3	11.1	10.1	10.1									
2531	9.7	10.2	10.0	10.1	9.6	9.4	9.4	10.1	9.2	9.4	9.4	10.0	9.7	9.3	M	10.7	9.5							
2532	9.5	9.3	9.5	8.9	9.0	9.8	9.8	9.1	9.5	9.8	9.5	9.9	9.6	9.3										
2533	9.6	9.6	11.2	9.9	9.5	9.6	9.0	10.1	9.1	9.5	10.5	9.8	10.3	8.3	9.6	9.1	9.0	9.7						
2534	10.0	9.5	9.5	9.2	11.3	10.2	10.0	11.0	10.2	11.2	9.4	9.3	10.3	10.0	9.5									
2535	12.1	11.5	11.1	11.8	12.6	12.9	12.3	12.0	12.6	12.6	11.3													
2536	HUMANE SACRIFICE																							
2537	14.0	11.7	14.4	14.9	15.0																			
2538	12.6	12.6	12.9	13.1	D	13.2	12.6	11.5	M	12.2	12.4	12.6												
2539	9.9	9.6	10.6	10.1	10.3	11.0	10.3	9.8	10.9	10.0	8.7	9.8	9.1	9.0	9.5									
2540	11.8	11.3	11.9	12.1	12.4	12.0	11.7	12.5	11.9	11.1	11.5	11.4												
2541	10.2	9.9	11.1	10.3	10.3	9.6	9.4	9.8	10.4	10.4	10.4	10.5	9.6	10.3	10.2									
2542	10.2	D	10.8	11.2	10.7	9.7	11.1	10.0	9.4	9.9	9.8	10.7	9.4	10.2										
2543	9.7	10.1	10.6	10.6	10.2	10.3	8.4	9.8	9.9	9.2	8.7	9.3	9.9	9.9	9.4	9.4	9.4							
2544	NOT PREG., NO MATING DATE																							
2545	10.3	10.6	10.5	10.5	M	10.9	9.5	10.4	10.9	10.1	9.3	11.1	9.2											
2546	10.5	11.0	10.8	9.8	7.2	10.6	11.0	12.6	10.3	10.4	11.4	10.3	10.0	10.4	10.5									
2547	9.9	10.5	10.0	10.8	9.5	9.7	10.0	9.8	9.6	9.7	10.2	9.4	10.1											
2548	10.6	10.3	11.2	11.4	10.9	10.9	11.4	10.6	11.1	10.8	10.5	11.0	7.6	9.7										
2549	NOT PREG., NO MATING DATE																							
2550	9.9	S	6.2	12.4	7.6	9.6	11.3	10.7	9.9	9.3	10.9	11.6	9.1											
2551	11.0	11.4	11.0	11.0	11.4	11.6	11.1	11.3	10.9	11.2	10.8	10.4	10.4											
MEAN	10.4																							
S.D.	1.18																							
N	23																							

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

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

## INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP III 10000 MG/M3

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
3526	NOT PREG., NO MATING DATE																			
3527	9.7	9.3	10.1	9.7	10.3	9.6	10.1	10.1	9.5	10.4	10.9	8.6	8.9	9.2	10.3	9.7	8.8			
3528	10.9	10.7	10.4	11.9	11.5	11.8	11.4	10.2	10.2	10.6	10.9	9.7	10.9	11.0	11.2	11.6				
3529	10.3	M	10.5	9.9	10.4	10.1	11.3	11.1	11.1	9.8	11.2	10.2	10.0	10.2	8.8	10.0				
3530	NOT PREG., NO MATING DATE																			
3531	9.8	10.4	10.1	9.8	11.0	8.5	10.6	9.3	10.6	8.8	10.2	9.1	9.9	9.7						
3532	11.4	11.6	11.3	12.2	11.8	9.9	11.8	11.5	10.3	11.8	11.1	11.7	11.5							
3533	8.8	9.2	8.8	9.1	9.3	8.7	9.5	8.8	9.0	8.6	9.0	8.0	8.0	8.1	8.2	9.3				
3534	TOTAL LITTER LOSS																			
3535	9.4	9.8	D	9.8	9.8	10.4	11.1	9.8	9.8	8.5	9.6	8.7	7.9	9.1	9.0	8.5				
3536	9.5	8.4	9.7	10.4	10.0	9.9	9.8	9.9	9.5	9.1	8.9	9.0	9.7	9.7						
3537	10.8	11.5	10.8	11.0	11.0	11.5	10.7	10.5	11.1	11.1	10.1	10.9	10.4	10.4						
3538	11.5	11.7	11.8	11.0	12.0	11.0	11.7	12.4	10.4	11.4	11.6	12.2	10.8							
3539	9.7	10.1	9.8	8.5	10.1	10.0	10.8	9.8	9.4	9.2	9.6	9.7	10.1	8.4						
3540	11.2	10.7	12.1	12.0	11.7	11.6	11.3	11.5	10.7	10.9	11.2	10.7	10.0	10.8						
3541	11.4	11.4	11.3	12.4	10.2	12.6	13.0	12.8	11.9	6.7	11.7	10.7	11.2	11.4	11.9					
3542	12.7	13.0	13.1	13.5	12.8	13.1	12.5	12.7	12.8	12.2	11.4									
3543	9.0	9.9	10.3	9.2	10.5	7.7	5.9	9.3	9.0	8.5	9.3	8.3	9.2	8.6	8.6	10.1				
3544	8.3	8.4	8.3	8.3	8.7	8.9	8.8	8.9	7.4	8.0	8.7	8.3	7.3	8.2						
3545	10.4	11.3	10.9	10.7	11.0	11.3	9.2	9.8	11.0	9.0	10.3	10.5	10.4	10.0						
3546	10.2	10.1	9.7	11.1	10.1	10.7	10.3	10.9	10.3	9.7	9.8	9.5	10.8	10.2	9.9					
3547	10.6	11.8	11.0	10.1	10.8	10.8	11.1	10.5	10.2	10.3	9.6									
3548	11.9	12.6	12.6	11.7	13.0	11.7	11.2	11.8	11.5	11.3	11.8	11.3								
3549	10.2	S	10.3	9.3	10.5	10.9	10.0	10.5	9.1	9.7	10.8	10.5	10.7	9.3	10.5	10.4				
3550	7.9	S	7.9	8.1	8.5	8.6	7.7	8.4	7.7	8.0	7.3	7.3	8.0	8.1	7.3	8.0	8.0	7.1		
3551	10.1	10.3	10.4	11.0	10.4	10.3	9.7	10.1	9.6	10.7	9.8	9.8	10.5	9.2	10.2	9.3				
MEAN	10.2																			
S.D.	1.16																			
N	23																			

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
4526	10.1	9.9	10.7	9.9	10.6	9.7	10.4	10.9	10.0	9.0	9.8	10.0	10.1	10.4										
4527	10.8	S	11.2	11.3	11.4	10.5	10.9	11.0	10.0	10.3	10.7	10.3	11.0											
4528	9.5	10.3	9.4	9.3	9.9	9.7	10.2	10.2	9.7	9.7	9.0	9.5	9.2	9.9	7.6	9.4								
4529	9.2	8.8	9.8	9.2	9.0	9.1	9.3	9.0	9.0	9.3	9.5	9.8	8.6	9.6	9.0	9.3								
4530	8.6	8.6	8.4	8.7	9.8	8.6	8.6	8.7	8.2	8.5	7.9	8.2	8.4	9.2	8.4	8.7								
4531	10.4	11.3	10.3	10.5	10.9	10.0	10.9	11.0	10.8	9.3	9.6	10.2	11.0	9.7	10.0									
4532	10.6	10.6	10.9	10.9	10.6	10.4	11.3	12.2	11.1	9.8	10.9	10.0	9.3	11.2	9.8									
4533	10.2	S	10.3	11.2	10.5	9.9	8.4	10.3	10.4	10.8														
4534	11.6	S	S	10.8	12.3	11.4	12.1	11.5	11.3	12.0	11.7	10.3	12.3											
4535	9.8	S	9.9	10.1	9.7	9.7	10.0	8.8	10.5	10.9	10.1	9.6	9.4	9.0	9.3	9.9	10.3							
4536	10.6	10.1	10.9	13.6	10.8	10.6	10.3	10.7	10.3	9.9	10.5	10.2	10.4	9.9										
4537	10.7	11.0	11.0	9.7	10.8	11.6	10.5	10.8	10.6	10.3	10.9	10.4	10.8	11.4	10.6									
4538	10.9	S	10.9	11.0	11.2	11.4	11.5	10.2	10.4	11.3	10.3	10.6	10.0	11.6	11.2	10.7								
4539	12.1	M	M	11.7	13.8	12.3	10.0	13.0	12.5	11.4														
4540	11.3	12.2	11.6	11.8	M	10.7	11.2	11.2	11.8	11.1	11.7	11.2	10.2	11.0										
4541	11.3	11.7	11.1	10.9	11.9	11.8	11.9	11.8	10.7	10.8	10.9	11.2	11.1											
4542	12.0	12.9	12.5	11.0	13.0	11.3	11.2	12.1	11.4	12.7														
4543	NOT PREG., NO MATING DATE																							
4544	NOT PREG., NO MATING DATE																							
4545	11.2	11.7	11.5	12.0	11.7	11.2	11.3	11.4	11.0	10.0	11.4	9.8												
4546	10.6	S	D	S	10.6	11.5	10.9	11.0	11.1	10.0	10.3	9.9	10.1	10.9	10.2									
4547	9.9	11.0	10.8	10.5	9.5	9.7	10.9	10.4	9.9	9.9	10.2	9.1	9.0	9.5	9.0	9.7								
4548	9.2	8.2	9.7	9.1	8.7	9.3	9.0	9.2	9.1	9.6	9.4	9.4	9.3	9.0	10.1									
4549	11.6	12.0	12.6	11.7	11.9	11.8	12.1	11.6	10.8	10.7	11.7	11.2	11.2											
4550	9.5	9.4	9.7	10.0	9.7	9.6	9.7	8.8	9.6	10.1	10.2	9.3	9.7	8.2	10.0	9.2								
4551	NOT PREGNANT																							
MEAN	10.5																							
S.D.	0.95																							
N	22																							

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		1526	13.7	13.6	14.2	13.7	15.0	12.5	13.4	13.9	C	13.9	13.6	13.1	C									
		1527	15.8	C	16.1	C	15.6	15.7	15.3	17.0	16.5	15.5	14.6	15.3	15.9									
		1528	14.4	16.6	16.3	16.0	7.3	16.9	16.8	D	9.6	16.0												
		1529	14.6	15.3	14.4	15.6	14.8	13.3	15.2	13.7	14.5	C	14.1	M	15.0									
		1530	18.9	19.4	19.1	18.9	18.7	18.4																
		1531	10.7	11.3	10.8	C	11.2	11.6	C	C	10.5	11.0	10.6	9.1	10.0	10.5								
		1532	14.6	15.2	C	C	14.4	C	15.4	16.1	14.6	14.5	14.0	14.4	13.7	13.9								
		1533	15.3	S	16.3	14.8	16.4	15.1	16.2	C	14.2	14.6	C	15.2	15.2	15.0	C	C						
		1534	NOT PREGNANT																					
		1535	10.0	9.7	11.1	9.4	9.7	10.7	D	9.8	9.1	10.7	9.7	10.4										
		1536	17.1	18.7	17.2	17.0	17.3	17.9	17.2	C	17.3	15.9	C	15.9	17.0									
		1537	15.6	C	C	C	15.4	17.3	15.8	15.7	15.7	C	C	15.1	C	15.6	14.4	15.3	15.6					
		1538	NOT PREGNANT																					
		1539	15.7	S	C	15.6	16.1	16.8	15.7	17.0	15.5	14.5	15.2	C	16.2	14.6								
		1540	NOT PREG., NO MATING DATE																					
		1541	14.7	15.1	16.1	15.3	C	C	15.9	14.3	14.1	C	C	13.2	14.1	14.9	14.0	M						
		1542	10.4	10.7	11.2	10.6	10.6	10.9	C	10.4	9.4	9.8	10.2	9.8										
		1543	14.1	14.9	14.9	14.9	14.5	C	14.2	C	14.5	13.5	C	C	13.9	13.9	C	11.9						
		1544	15.5	S	C	C	16.1	16.6	15.7	15.5	15.3	15.5	14.9	14.1	15.7	15.5								
		1545	12.7	C	12.7	13.7	13.1	12.6	13.1	C	C	11.8	C	13.6	13.4	12.3	10.9	C						
		1546	15.9	16.8	15.9	15.7	16.4	16.8	16.2	15.0	C	15.0	16.0	C	15.5	C								
		1547	17.9	17.6	18.6	18.3	16.7	18.0	18.2															
		1548	NOT PREGNANT																					
		1549	TOTAL LITTER LOSS																					
		1550	14.3	C	15.2	M	14.6	14.9	14.5	14.9	14.7	14.5	13.7	13.5	12.0									
		1551	14.3	15.4	15.1	15.2	13.7	13.8	13.7	14.5	13.6	13.5												
MEAN			14.6																					
S.D.			2.25																					
N			21																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
2526	12.7	C	C	12.8	C	13.1	C	11.9	C	14.4	13.5	13.4	C	12.4	11.2	12.1	12.5							
2527	13.2	13.8	14.3	12.5	14.9	C	13.7	C	C	C	12.8	11.4	13.7	12.3	12.9									
2528	12.2	12.2	11.8	12.1	13.4	13.2	C	C	13.3	11.8	10.9	C	11.7	11.9	C	C								
2529	13.8	C	13.8	C	14.3	14.4	14.4	14.0	C	11.8	13.5	13.9	13.9	13.7										
2530	16.0	S	17.0	16.5	16.1	C	17.0	15.6	14.5	16.7	C	C	16.1	15.1	15.6									
2531	14.5	C	14.6	14.9	15.0	14.4	C	15.2	C	13.3	C	C	14.2	13.6	M	15.2	14.3							
2532	13.3	13.0	13.8	12.7	12.6	C	13.6	C	C	13.4	13.5	14.0	13.1	12.8										
2533	14.8	14.7	C	C	C	15.1	14.4	16.5	C	15.3	C	14.9	15.0	12.9	14.8	14.1	C	C						
2534	14.1	13.7	C	C	15.1	C	C	15.7	13.4	15.3	13.7	12.6	13.9	13.8	13.7									
2535	16.0	15.6	15.1	15.7	17.3	16.8	15.7	15.8	16.6	16.8	14.8													
2536	HUMANE SACRIFICE																							
2537	18.6	15.0	19.4	20.0	19.8																			
2538	15.8	15.6	15.6	16.8	D	16.9	15.9	14.0	M	15.8	15.8	15.7												
2539	14.7	14.2	14.9	14.3	14.9	15.8	14.7	14.8	C	15.4	C	C	13.7	13.8	C									
2540	15.3	14.9	15.6	C	16.2	15.9	15.6	15.7	15.2	14.3	14.9	14.6												
2541	13.6	13.9	14.7	14.3	13.6	13.4	12.9	13.0	13.6	12.8	13.6	C	C	C	C									
2542	14.5	D	14.5	19.0	14.9	13.7	14.9	C	13.4	13.6	13.8	C	13.3	14.3										
2543	15.1	C	16.3	16.4	16.2	C	12.3	15.5	15.4	14.2	C	C	15.8	C	14.6	14.4	C							
2544	NOT PREG., NO MATING DATE																							
2545	14.1	14.1	14.8	14.3	M	14.8	13.2	14.8	14.6	13.8	C	14.6	12.5											
2546	15.1	15.9	15.7	13.8	C	15.6	C	C	14.9	15.0	16.6	14.9	13.4	C	15.3									
2547	14.3	15.1	13.7	15.6	13.4	14.1	14.0	C	13.8	14.3	14.6	C	14.5											
2548	15.1	15.2	16.3	16.3	15.5	C	16.5	C	C	15.2	14.8	15.4	11.3	14.2										
2549	NOT PREG., NO MATING DATE																							
2550	13.0	S	8.2	16.2	10.0	12.9	C	14.3	13.0	12.3	15.2	15.2	12.4											
2551	15.5	16.0	16.0	15.5	15.8	15.3	15.7	C	C	15.5	15.1	14.7	15.1											
MEAN	14.6																							
S.D.	1.36																							
N	23																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

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

GROUP III		10000 MG/M3															LACTATION DAY 7					
FEMALE#	MEAN	INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																				
		PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3526	NOT PREG., NO MATING DATE																					
3527	13.7 C	C	C	13.5	14.9	14.0	C	13.9	C	C	14.9	12.5	12.6	13.1	14.3	13.2	C					
3528	15.9	15.5	14.9	16.8	16.3	17.0	C	C	C	C	C	14.1	16.4	16.3	15.9	16.3						
3529	14.7 M	C	C	14.5	15.5	14.2	15.8	15.9	C	14.1	C	14.6	15.0	14.5	12.8	C						
3530	NOT PREG., NO MATING DATE																					
3531	13.6 C	C	14.5	14.2	15.4	12.5	C	13.3	C	12.6	14.0	12.2	13.8	13.6								
3532	15.4 C	C	C	16.2	16.0	13.2	15.8	15.6	14.5	16.3	14.8	15.3	15.8									
3533	12.8	13.5	C	13.1	C	12.8	13.8	12.9	12.8	12.9	C	12.1	11.7	12.2	C	C						
3534	TOTAL LITTER LOSS																					
3535	12.5	12.8	D	11.8	13.6	C	13.6	C	13.0	11.4	13.1	11.7	C	C	12.8	11.5						
3536	12.9 C	C	13.2	C	C	13.5	13.5	13.2	13.2	12.6	12.1	12.7	12.9	12.5								
3537	15.8	16.4	15.6	16.1	15.6	C	15.9	C	16.4	16.5	C	15.4	15.3	14.9								
3538	15.2	15.7	C	C	15.4	14.8	15.2	16.5	13.8	14.3	15.5	15.9	14.5									
3539	13.6	13.7	13.6	11.6	14.6	14.3	C	14.8	13.0	C	C	13.7	14.2	12.5								
3540	15.2	15.4	16.1	16.3	15.9	14.6	C	C	14.7	15.2	15.5	C	13.3	15.3								
3541	16.7	18.4	17.2	18.8	15.4	18.5	C	C	C	10.4	C	16.1	17.2	17.5	17.8							
3542	16.5	16.8	16.4	17.5	16.7	17.3	15.7	16.6	17.0	16.1	15.3											
3543	13.5	14.0	14.5	13.5	14.6	11.9	C	C	13.4	13.0	14.0	C	13.0	C	13.2	C						
3544	11.6 C	C	11.4	11.8	12.0	12.5	12.0	12.2	C	10.8	11.9	C	9.5	12.1								
3545	15.3	16.6	15.1	15.6	15.5	16.1	C	14.7	16.1	13.5	15.4	C	C	14.4								
3546	14.3 C	C	C	15.4	C	14.5	13.9	15.2	14.3	13.4	13.3	13.5	15.3	14.6	C							
3547	13.7	14.9	14.1	13.1	14.8	14.0	14.0	13.7	13.1	13.5	12.2											
3548	16.0	16.3	16.6	15.8	16.9	16.7	C	15.4	15.6	15.5	16.0	15.6										
3549	14.3 S	C	14.8	14.4	15.2	14.3	C	14.4	13.0	13.9	14.9	C	C	13.4	14.2	C						
3550	11.1 S	C	C	11.5	11.7	C	C	11.5	11.2	11.3	10.8	C	C	11.1	C	10.9	11.1	10.2				
3551	13.8	13.4	13.9	14.6	14.0	14.1	13.4	14.0	C	14.4	C	C	C	13.0	13.3	C						
MEAN	14.3																					
S.D.	1.51																					
N	23																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING



## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
4526	13.6	13.5	C	13.6	14.2	C	13.4	14.1	13.3	C	13.5	12.8	13.7	14.1										
4527	15.0	S	15.1	15.5	15.4	C	15.2	15.5	14.2	14.7	14.8	14.6	15.2											
4528	13.2	C	13.1	C	C	13.5	14.4	14.1	C	13.4	13.0	13.2	C	13.2	11.1	13.2								
4529	13.4	13.7	14.1	12.8	C	13.1	13.3	13.4	C	C	C	C	13.2	12.6	14.2	13.6								
4530	13.0	13.3	13.2	12.8	C	12.7	13.2	12.8	12.3	C	C	C	12.9	13.9	12.9	C								
4531	14.1	14.9	13.5	14.3	15.3	C	15.2	C	13.8	12.9	12.8	14.1	14.7	C	C									
4532	14.0	C	C	15.0	13.7	C	15.1	15.1	15.2	13.1	13.8	12.3	12.4	14.4	C									
4533	13.2	S	13.3	14.0	13.6	12.9	11.0	13.4	13.5	13.6														
4534	15.4	S	S	14.7	15.5	14.8	16.1	15.8	15.3	16.3	15.5	13.7	16.2											
4535	13.3	S	13.7	13.9	13.3	C	13.3	12.1	C	C	C	13.4	12.5	12.9	13.9	13.8								
4536	15.9	C	16.7	18.4	16.2	16.4	15.5	15.1	15.1	15.1	15.4	C	15.4	C	C									
4537	15.3	16.3	16.0	14.8	15.5	16.4	14.2	14.7	C	14.4	15.1	C	C	C	15.2									
4538	16.3	S	16.3	16.8	16.5	17.2	16.9	16.1	15.8	16.8	15.2	15.4	C	C	C	C								
4539	15.6	M	M	15.9	17.5	16.6	12.0	16.8	16.1	14.6														
4540	15.8	16.7	16.7	16.4	M	15.1	15.7	15.9	16.1	15.2	C	C	14.9	15.2										
4541	15.6	C	C	15.9	16.1	16.3	15.6	16.0	14.5	15.2	15.3	15.0	15.6											
4542	15.5	16.1	15.7	14.4	16.4	15.4	14.6	15.6	15.2	16.3														
4543	NOT PREG., NO MATING DATE																							
4544	NOT PREG., NO MATING DATE																							
4545	14.4	15.0	15.1	C	15.4	14.5	14.9	14.3	14.6	12.6	14.6	12.6												
4546	12.9	S	D	S	12.9	13.6	13.2	13.2	13.5	12.5	12.6	12.3	12.1	12.9	C									
4547	14.0	C	15.8	15.3	14.0	C	C	C	13.5	14.2	C	13.6	13.4	13.2	13.3	13.8								
4548	13.2	11.8	C	13.3	13.0	13.5	13.4	C	13.0	C	C	12.8	13.2	13.1	15.0									
4549	15.6	16.6	17.3	15.8	C	15.4	16.0	15.3	14.7	14.5	15.9	14.4	C											
4550	13.4	C	C	C	13.6	13.9	13.5	12.2	13.3	C	C	13.4	14.1	12.2	13.6	13.7								
4551	NOT PREGNANT																							
MEAN	14.3																							
S.D.	1.09																							
N	22																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

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

GROUP I	INDIVIDUAL PUP BODY WEIGHTS (GRAMS)																LACTATION DAY 14			
	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
1526	24.2	23.7	24.9	23.7	26.5	23.1	22.8	25.0	C	24.4	24.4	23.1	C							
1527	26.4	C	26.3	C	25.8	26.1	26.2	27.3	27.2	27.9	24.2	26.5	26.8							
1528	25.2	27.9	26.1	27.6	12.0	27.4	28.4	D	D	26.8										
1529	24.5	25.3	24.0	25.7	25.4	23.0	24.3	24.0	24.0	C	24.0	M	25.2							
1530	34.2	35.0	33.5	34.2	34.8	33.3														
1531	18.9	20.3	19.8	C	19.5	19.5	C	C	18.6	19.5	18.7	16.8	17.3	18.7						
1532	24.6	25.7	C	C	25.7	C	25.5	26.8	24.8	25.0	22.9	23.5	23.2	23.4						
1533	25.9	S	26.9	25.4	27.9	25.3	27.1	C	23.2	25.7	C	25.1	26.5	26.3	C	C				
1534	NOT PREGNANT																			
1535	19.8	19.0	D	18.9	18.7	21.7	D	18.9	18.7	21.0	19.5	22.0								
1536	27.6	30.0	27.6	27.8	28.8	29.5	26.7	C	28.2	26.3	C	25.3	26.1							
1537	28.7	C	C	C	28.5	30.2	28.9	27.9	28.9	C	C	29.5	C	30.0	26.4	28.9	27.8			
1538	NOT PREGNANT																			
1539	25.8	S	C	25.7	25.6	28.0	25.2	27.4	26.2	24.5	25.2	C	25.4	24.9						
1540	NOT PREG., NO MATING DATE																			
1541	27.0	28.4	28.1	26.8	C	C	29.0	26.9	26.6	C	C	24.9	26.4	27.6	25.4	M				
1542	20.0	20.9	22.1	19.5	19.7	20.4	C	19.1	19.1	20.3	19.5	19.5								
1543	25.2	26.4	25.7	26.7	25.4	C	25.1	C	25.6	25.1	C	C	25.8	24.2	C	21.8				
1544	26.3	S	C	C	26.6	27.7	26.7	25.8	25.6	28.0	24.9	25.2	25.7	26.5						
1545	22.1	C	21.6	23.8	21.7	22.6	22.0	C	C	21.1	C	23.1	22.5	21.9	20.3	C				
1546	26.5	27.3	25.8	26.4	27.8	27.3	26.3	26.2	C	26.1	25.9	C	25.8	C						
1547	28.3	27.7	28.6	29.4	27.3	28.4	28.6													
1548	NOT PREGNANT																			
1549	TOTAL LITTER LOSS																			
1550	23.1	C	23.6	M	22.9	24.5	22.3	23.5	23.7	23.8	23.3	22.3	20.9							
1551	24.3	26.2	24.9	25.2	24.1	23.9	23.3	24.3	23.4	23.6										
MEAN	25.2																			
S.D.	3.39																			
N	21																			

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		2526	22.7	C	C	22.4	C	22.4	C	22.1	C	24.9	23.5	24.3	C	22.2	20.6	22.4	21.9					
		2527	23.4	24.6	26.1	22.3	25.2	C	23.9	C	C	C	21.6	20.8	24.2	22.8	22.3							
		2528	22.2	23.2	23.1	22.7	23.0	23.5	C	C	23.5	21.8	20.5	C	C	19.9	21.0	C	C					
		2529	22.0	C	21.5	C	23.2	22.5	23.1	23.3	C	20.8	19.8	21.6	22.6	21.8								
		2530	26.4	S	27.2	27.1	26.8	C	28.0	25.7	24.2	26.3	C	C	26.3	26.0	26.1							
		2531	25.4	C	25.9	25.9	25.4	25.5	C	26.6	C	23.8	C	C	25.7	24.9	M	26.0	24.7					
		2532	23.6	22.6	23.6	23.8	22.2	C	24.0	C	C	24.4	22.9	25.0	25.0	23.0								
		2533	27.4	28.0	C	C	C	28.6	26.6	29.2	C	27.7	C	27.9	26.9	25.1	27.3	26.7	C	C				
		2534	23.9	22.2	C	C	24.9	C	C	25.7	23.2	25.6	24.4	21.7	23.0	24.8	23.1							
		2535	26.0	25.6	24.4	26.5	27.6	27.0	26.7	25.6	25.7	27.0	24.3											
		2536	HUMANE SACRIFICE																					
		2537	29.9	25.2	31.6	31.8	31.0																	
		2538	26.3	25.2	25.2	28.2	D	27.8	26.7	23.7	M	26.3	26.5	26.7										
		2539	24.5	24.0	25.7	24.9	25.2	25.0	24.1	24.3	C	24.8	C	C	23.9	23.0	C							
		2540	24.2	23.4	24.8	C	25.1	24.9	23.9	24.8	24.3	23.8	23.9	23.5										
		2541	24.6	24.9	25.0	25.1	25.6	24.9	23.1	24.3	24.5	23.0	25.3	C	C	C	C							
		2542	23.8	D	24.9	25.1	24.8	23.2	25.3	C	22.6	23.5	21.7	C	22.5	24.0								
		2543	27.3	C	28.3	29.1	28.1	C	25.3	28.3	27.6	24.5	C	C	28.3	C	27.0	26.6	C					
		2544	NOT PREG., NO MATING DATE																					
		2545	26.0	26.1	26.4	27.3	M	26.7	24.4	27.7	26.9	24.4	C	27.1	23.1									
		2546	27.9	28.1	29.0	26.4	C	28.7	C	C	28.6	28.3	28.5	27.1	25.6	C	29.0							
		2547	25.4	26.1	24.7	26.6	25.5	25.3	25.4	C	24.5	24.9	25.1	C	25.6									
		2548	26.4	26.7	28.5	27.5	27.0	C	27.6	C	C	26.6	25.4	25.6	22.2	26.5								
		2549	NOT PREG., NO MATING DATE																					
		2550	22.4	S	14.9	26.4	17.1	22.2	C	24.7	23.2	22.4	26.3	25.2	21.8									
		2551	25.9	26.7	27.4	25.9	26.1	26.8	25.4	C	C	25.2	25.3	24.5	25.6									
MEAN	25.1																							
S.D.	2.01																							
N	23																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		3526	NOT PREG., NO MATING DATE																					
		3527	23.5	C	C	23.3	25.0	24.6	C	23.6	C	C	C	23.3	21.5	22.6	22.9	24.1	24.0	C				
		3528	26.2	26.9	24.1	27.0	25.2	28.7	C	C	C	C	C	22.5	25.5	27.4	27.6	27.3						
		3529	24.5	M	C	23.3	26.7	24.6	26.3	26.0	C	24.3	C	23.2	24.9	23.5	22.5	C						
		3530	NOT PREG., NO MATING DATE																					
		3531	22.5	C	25.0	24.8	23.6	20.0	C	22.8	C	20.9	23.9	19.0	23.6	21.5								
		3532	24.9	C	C	26.5	25.3	22.1	26.2	24.4	23.2	27.6	23.4	25.0	25.6									
		3533	21.5	22.8	C	21.7	C	21.4	22.8	21.0	21.8	21.3	C	20.7	21.0	20.3	C	C						
		3534	TOTAL LITTER LOSS																					
		3535	20.1	20.3	D	19.3	21.6	C	21.9	C	20.6	18.8	19.7	18.6	C	C	21.1	18.7						
		3536	23.0	C	23.2	C	C	24.9	23.1	23.6	23.3	22.9	22.0	21.7	23.8	21.8								
		3537	26.7	27.8	26.6	27.3	27.1	C	27.9	C	27.6	27.5	C	25.9	24.6	24.9								
		3538	25.6	25.2	C	C	26.6	25.2	24.7	26.8	25.9	26.5	26.1	24.4	24.7									
		3539	25.9	25.8	25.4	22.5	23.3	28.5	C	28.2	26.1	C	C	26.6	28.2	24.0								
		3540	25.0	25.2	26.0	27.8	26.4	25.4	C	C	24.9	25.7	25.0	C	18.2	25.6								
		3541	29.3	31.2	28.9	32.1	28.0	31.4	C	C	C	21.6	C	28.7	31.0	30.6	29.3							
		3542	26.3	27.0	27.0	27.8	25.5	26.0	25.9	26.6	26.6	25.9	24.4											
		3543	23.1	24.1	25.8	21.8	23.2	20.4	C	C	23.5	23.6	24.2	C	22.4	C	22.1	C						
		3544	21.9	C	22.0	23.0	22.2	22.9	22.0	21.7	C	20.2	22.1	C	19.7	23.4								
		3545	27.4	28.6	27.5	28.4	27.7	28.2	C	25.2	28.3	25.1	28.2	C	C	26.3								
		3546	25.1	C	C	26.9	C	24.3	25.4	26.6	25.6	22.9	22.0	24.5	27.2	25.9	C							
		3547	21.9	23.8	22.0	21.8	22.6	20.7	22.6	21.7	21.1	22.0	20.3											
		3548	27.4	27.2	29.2	27.0	29.4	27.7	C	26.9	26.1	27.1	27.7	25.6										
		3549	25.7	S	27.3	25.6	27.9	24.7	C	25.5	23.9	24.4	27.3	C	C	25.6	24.7	C						
		3550	20.5	S	C	21.4	21.0	C	C	21.3	20.7	20.6	20.6	C	C	20.7	C	19.0	20.7	19.1				
		3551	25.3	24.7	26.2	28.6	26.3	25.0	26.4	23.1	C	25.6	C	C	C	23.1	23.7	C						
MEAN	24.5																							
S.D.	2.37																							
N	23																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
4526	21.6	21.2	C	22.3	22.7	C	21.4	22.0	21.0	C	21.4	20.9	21.4	21.8										
4527	26.6	S	26.9	27.2	26.9	C	26.5	27.4	25.0	26.0	26.2	25.9	28.0											
4528	21.9	C	22.5	C	C	21.9	23.2	22.4	C	21.6	22.3	21.6	C	21.8	19.2	22.4								
4529	24.4	23.8	25.6	24.4	C	24.8	23.5	25.4	C	C	C	C	24.4	23.0	24.7	24.8								
4530	24.4	25.4	24.1	23.9	C	23.5	25.6	24.1	22.9	C	C	C	24.9	24.7	24.9	C								
4531	23.6	24.1	23.6	23.5	24.9	C	24.6	C	23.1	22.6	22.1	23.0	24.0	C	C									
4532	23.6	C	C	25.9	21.8	C	24.9	26.1	25.8	22.6	22.7	20.9	21.2	24.3	C									
4533	22.3	S	22.2	23.7	22.6	21.6	19.7	23.1	23.2	22.6														
4534	25.2	S	S	25.1	25.2	24.1	25.3	25.3	25.5	27.3	26.1	21.7	26.7											
4535	22.7	S	22.1	23.1	23.4	C	23.2	21.2	C	C	C	C	22.0	22.5	22.9	23.9	22.5							
4536	27.2	C	27.5	30.2	28.7	28.2	25.6	25.9	26.6	26.1	26.6	C	26.8	C	C									
4537	25.8	27.9	26.1	25.1	25.7	26.8	24.1	26.1	C	24.2	26.2	C	C	C	25.9									
4538	28.3	S	28.2	29.4	28.4	28.9	29.5	27.2	28.9	29.4	26.2	26.6	C	C	C	C								
4539	24.6	M	M	25.3	27.4	26.9	17.1	26.7	25.9	23.2														
4540	27.5	28.9	29.4	29.1	M	25.5	27.0	28.2	29.2	25.9	C	C	25.3	26.1										
4541	25.3	C	C	24.9	25.8	26.1	26.1	25.8	24.0	24.9	24.8	24.9	26.0											
4542	25.0	24.9	26.3	24.2	25.8	25.0	23.6	25.4	25.0	25.1														
4543	NOT PREG., NO MATING DATE																							
4544	NOT PREG., NO MATING DATE																							
4545	23.0	24.2	23.9	C	23.1	23.7	23.9	22.8	23.5	20.6	23.7	20.7												
4546	22.5	S	D	S	22.1	23.7	22.4	23.2	23.3	21.8	22.1	22.0	21.5	22.8	C									
4547	26.4	C	28.5	27.7	25.8	C	C	C	26.5	27.1	C	25.4	25.9	25.6	25.0	26.5								
4548	21.6	17.8	C	21.9	22.2	22.0	22.3	C	21.7	C	C	20.7	21.4	21.4	24.3									
4549	26.1	26.2	29.1	26.7	C	25.4	26.0	26.2	25.2	24.5	25.6	25.8	C											
4550	23.7	C	C	C	24.7	24.4	24.2	23.3	23.4	C	C	23.7	24.6	22.0	23.5	23.5								
4551	NOT PREGNANT																							
MEAN	24.3																							
S.D.	1.82																							
N	22																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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 21						
		FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1526	41.6	42.3	43.7	40.9	45.4	39.2	39.6	43.6	C	42.1	41.2	37.6	C										
1527	44.7	C	45.6	C	43.5	44.8	43.9	47.4	44.9	45.9	40.1	44.7	46.1										
1528	44.5	50.5	45.9	49.7	48.3	18.6	50.8	D	D	47.5													
1529	46.2	45.7	45.4	49.5	47.4	43.7	47.1	41.3	47.3	C	45.4	M	49.3										
1530	54.2	56.7	52.5	55.0	55.3	51.5																	
1531	31.8	31.7	32.4	C	32.3	32.9	C	C	32.2	32.4	31.9	28.4	30.7	32.8									
1532	38.4	39.4	C	C	38.0	C	38.7	41.5	40.6	39.7	35.9	35.9	37.5	37.2									
1533	44.5	S	47.3	45.8	45.4	43.1	45.9	C	40.3	44.8	C	43.7	44.8	44.3	C		C						
1534	NOT PREGNANT																						
1535	32.6	30.2	D	29.6	29.5	37.6	D	27.4	32.0	33.8	34.1	39.0											
1536	45.6	52.1	45.1	47.5	47.6	49.3	41.7	C	47.5	41.6	C	41.6	41.5										
1537	47.6	C	C	C	45.6	49.3	45.0	48.1	48.8	C	C	49.3	C	50.8	44.8	46.3	47.7						
1538	NOT PREGNANT																						
1539	43.6	S	C	44.3	42.8	48.5	43.6	45.8	42.8	40.2	40.7	C	43.8	43.2									
1540	NOT PREG., NO MATING DATE																						
1541	43.7	46.6	46.0	43.8	C	C	45.5	44.1	42.9	C	C	38.8	41.8	44.6	42.9	M							
1542	32.6	33.7	36.1	32.2	33.0	35.5	C	31.0	30.3	31.7	31.9	30.7											
1543	45.7	48.0	47.5	50.7	46.3	C	44.1	C	44.5	45.2	C	C	44.7	45.9	C	40.2							
1544	44.5	S	C	C	45.2	48.5	46.5	44.9	42.5	46.2	40.7	42.7	42.7	45.2									
1545	35.0	C	29.2	39.9	34.4	35.6	35.2	C	C	34.2	C	39.3	35.4	35.3	32.0	C							
1546	43.7	44.5	44.0	42.5	44.9	44.6	42.5	44.7	C	44.8	42.9	C	42.0	C									
1547	46.5	49.6	48.3	47.1	42.0	46.0	46.1																
1548	NOT PREGNANT																						
1549	TOTAL LITTER LOSS																						
1550	34.5	C	32.1	M	35.0	35.4	34.3	34.5	38.7	37.3	34.9	32.0	31.0										
1551	38.1	40.7	41.2	40.2	39.2	39.5	35.0	35.4	35.7	35.6													
MEAN	41.9																						
S.D.	5.89																						
N	21																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		2526	35.5	C	C	36.2	C	33.3	C	37.0	C	34.9	37.2	40.6	C	33.2	33.3	35.3	33.6					
		2527	37.2	37.7	41.5	33.7	39.8	C	40.2	C	C	C	33.6	34.2	37.4	37.1	36.7							
		2528	37.8	39.1	37.9	40.9	36.2	39.1	C	C	42.0	37.6	35.3	C	C	34.2	35.5	C	C					
		2529	38.4	C	36.2	C	39.5	40.1	39.9	41.8	C	37.5	32.5	38.5	37.9	39.6								
		2530	45.7	S	47.8	46.4	45.1	C	51.7	44.7	41.5	44.4	C	C	46.2	44.1	45.3							
		2531	42.6	C	43.5	41.8	42.1	41.7	C	43.9	C	41.6	C	C	42.1	44.2	M	43.8	41.1					
		2532	41.1	40.1	41.7	38.9	38.8	C	43.0	C	C	41.5	40.2	43.8	42.2	41.2								
		2533	46.5	48.5	C	C	C	46.5	42.5	51.3	C	45.0	C	47.9	49.0	44.9	47.8	41.8	C	C				
		2534	39.7	35.8	C	C	41.7	C	C	40.7	35.9	44.7	39.5	38.1	40.1	40.6	40.3							
		2535	41.7	41.4	36.7	41.7	44.5	43.7	42.5	39.2	44.1	43.3	40.0											
		2536	HUMANE SACRIFICE																					
		2537	52.5	43.2	53.7	60.0	52.9																	
		2538	43.9	42.6	41.5	48.0	D	47.8	43.3	38.8	M	44.1	43.5	45.3										
		2539	41.6	42.1	42.3	43.2	44.9	40.6	40.9	40.9	C	43.5	C	C	39.6	38.4	C							
		2540	40.9	39.3	39.6	C	44.1	39.1	42.3	42.6	41.4	40.2	40.1	39.9										
		2541	42.5	43.1	40.9	44.4	44.0	43.0	39.2	42.1	42.3	40.4	45.9	C	C	C	C							
		2542	41.2	D	42.0	42.2	42.4	40.4	42.5	C	39.3	43.7	39.2	C	40.0	40.7								
		2543	48.5	C	49.6	53.8	49.8	C	43.9	51.7	48.6	44.0	C	C	47.9	C	48.1	47.3	C					
		2544	NOT PREG., NO MATING DATE																					
		2545	41.0	37.8	46.6	46.1	M	40.4	35.3	46.3	41.0	42.3	C	39.1	34.7									
		2546	49.3	50.7	49.5	48.7	C	53.2	C	C	48.8	51.6	50.4	45.3	45.4	C	49.7							
		2547	38.7	39.0	38.6	42.0	39.3	39.7	38.3	C	36.8	39.4	35.9	C	38.1									
		2548	43.2	45.5	45.3	45.3	46.4	C	46.8	C	C	45.0	40.6	41.3	35.6	39.8								
		2549	NOT PREG., NO MATING DATE																					
		2550	37.8	S	22.4	47.9	24.7	41.5	C	41.1	37.8	39.1	43.7	43.1	36.7									
		2551	45.2	45.9	47.7	46.3	45.6	46.0	42.8	C	C	45.5	44.5	42.5	45.1									
MEAN			42.3																					
S.D.			4.20																					
N			23																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		3526	NOT PREG., NO MATING DATE																					
		3527	40.1	C	C	40.9	41.9	41.1	C	38.5	C	C	40.0	37.6	38.1	39.6	42.2	40.6	C					
		3528	44.4	44.1	39.7	47.5	44.5	47.3	C	C	C	C	38.6	42.1	47.3	48.5	44.7							
		3529	41.7	M	C	39.7	44.8	41.9	45.6	44.4	C	41.8	C	39.0	42.3	39.1	38.7	C						
		3530	NOT PREG., NO MATING DATE																					
		3531	36.7	C	44.1	38.7	43.3	28.9	C	34.7	C	33.1	40.3	27.2	40.8	35.7								
		3532	42.5	C	C	46.6	42.6	35.5	42.8	41.0	40.8	48.8	39.8	41.7	45.6									
		3533	33.2	34.9	C	32.6	C	33.0	35.0	34.6	32.4	32.1	C	32.6	33.7	30.6	C	C						
		3534	TOTAL LITTER LOSS																					
		3535	32.0	31.2	D	31.5	32.9	C	32.6	C	34.2	31.7	32.3	31.1	C	C	33.2	28.8						
		3536	40.7	C	40.5	C	C	44.1	40.5	42.0	42.9	40.6	38.5	38.5	40.7	38.5								
		3537	46.3	46.7	50.3	47.3	44.8	C	46.1	C	48.8	47.8	C	46.7	41.5	43.3								
		3538	41.9	38.3	C	C	44.2	42.6	39.1	43.7	42.1	M	43.3	43.8	40.1									
		3539	37.5	36.4	37.3	31.7	34.9	43.8	C	39.2	37.2	C	C	37.3	44.1	32.8								
		3540	44.9	44.4	45.7	50.4	44.8	44.2	C	C	42.0	45.2	43.9	C	D	43.5								
		3541	51.0	54.4	49.7	56.7	50.5	51.9	C	C	C	38.9	C	50.0	53.4	52.7	52.0							
		3542	46.1	48.1	45.6	51.3	45.7	43.6	42.5	48.7	46.3	46.7	42.2											
		3543	38.8	41.3	44.0	35.7	38.0	30.1	C	C	40.8	38.8	44.5	C	35.7	C	38.9	C						
		3544	34.5	C	32.6	36.5	33.9	37.0	33.9	37.2	C	31.1	36.0	C	31.0	35.9								
		3545	45.5	49.9	46.3	47.9	48.1	44.8	C	43.1	46.8	40.1	44.6	C	C	43.4								
		3546	44.0	C	C	47.2	C	43.7	45.8	46.8	46.0	42.3	40.0	40.5	43.3	44.1	C							
		3547	35.8	38.1	39.1	33.6	32.5	35.5	38.5	35.7	34.7	36.5	33.8											
		3548	46.8	46.2	50.8	45.8	50.9	49.1	C	43.9	45.4	45.6	46.9	43.1										
		3549	41.8	S	43.0	39.5	45.4	41.3	C	39.5	39.8	40.5	47.2	C	C	40.2	41.1	C						
		3550	31.5	S	C	32.7	32.7	C	C	31.8	31.6	31.5	31.5	C	C	31.9	C	28.9	32.4	30.4				
		3551	43.4	42.6	45.7	47.0	44.8	43.2	45.9	40.5	C	44.0	C	C	C	40.2	40.0	C						
MEAN			40.9																					
S.D.			5.19																					
N			23																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING



## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
		4526	35.1	33.5	C	35.9	39.3	C	34.3	33.7	35.5	C	34.4	33.9	35.8	34.6								
		4527	44.9	S	44.4	45.9	44.7	C	45.3	48.2	41.7	45.4	44.3	42.0	47.5									
		4528	38.3	C	40.6	C	C	39.0	40.2	39.7	C	37.4	38.5	38.2	C	39.2	32.3	38.3						
		4529	40.2	42.0	42.0	39.2	C	38.8	42.4	41.1	C	C	C	C	38.5	38.3	38.0	41.4						
		4530	37.8	40.0	38.2	36.1	C	35.6	37.5	37.7	35.0	C	C	C	38.1	39.5	40.7	C						
		4531	37.3	37.8	37.4	36.6	40.6	C	36.0	C	39.2	37.3	37.0	35.6	35.2	C	C							
		4532	43.3	C	C	46.6	42.2	C	46.4	46.0	46.9	40.9	40.9	38.2	38.4	46.0	C							
		4533	37.1	S	37.2	36.2	38.1	35.1	32.7	39.1	39.1	39.1	39.1											
		4534	43.8	S	S	43.0	46.4	42.1	42.2	45.3	43.4	47.8	44.9	37.7	45.6									
		4535	39.3	S	40.0	40.6	42.9	C	38.6	36.3	C	C	C	C	38.1	38.9	37.6	41.2	39.0					
		4536	48.8	C	50.4	51.3	51.2	51.2	48.3	46.9	46.1	44.3	49.6	C	48.4	C	C							
		4537	44.0	48.2	40.6	42.3	45.9	45.9	38.7	44.7	C	42.5	44.2	C	C	C	47.4							
		4538	HUMANE SACRIFICE																					
		4539	42.8	M	M	43.9	50.3	46.1	24.6	46.0	46.8	42.0												
		4540	46.1	50.2	49.8	47.3	M	45.0	46.7	45.9	47.9	43.3	C	C	41.4	43.7								
		4541	44.0	C	C	40.4	45.6	45.2	45.1	44.7	42.3	43.7	44.4	44.8	44.3									
		4542	46.6	46.7	48.6	46.3	48.3	47.3	44.4	47.2	41.5	48.9												
		4543	NOT PREG., NO MATING DATE																					
		4544	NOT PREG., NO MATING DATE																					
		4545	37.6	38.2	40.9	C	37.7	37.6	39.1	35.5	41.6	33.1	38.0	34.4										
		4546	39.2	S	D	S	37.6	40.8	40.0	41.5	42.6	38.0	38.4	37.7	36.6	38.5	C							
		4547	44.8	C	49.9	47.0	45.8	C	C	C	46.7	43.7	C	44.6	39.0	43.7	44.8	43.3						
		4548	34.0	27.2	C	34.3	33.6	35.9	35.9	C	32.5	C	C	33.4	34.5	33.8	38.8							
		4549	42.6	42.7	41.5	45.7	C	43.7	43.5	44.7	42.1	41.1	40.5	40.6	C									
		4550	39.7	C	C	C	41.5	42.9	39.2	38.2	39.4	C	C	39.1	41.9	36.6	40.3	38.2						
		4551	NOT PREGNANT																					
		MEAN	41.2																					
		S.D.	3.99																					
		N	22																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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 28						
		FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1526	76.7	80.7	83.9	74.0	87.3	72.2	72.1	78.0	C	75.4	75.1	68.7	C										
1527	82.6	C	84.7	C	83.9	83.0	82.1	88.1	86.4	83.4	72.7	80.1	81.6										
1528	81.9	94.9	85.2	93.4	35.4	91.6	85.6	D	D	87.4													
1529	82.1	81.8	87.0	92.3	84.0	76.1	82.4	73.2	82.9	C	79.1	M	82.1										
1530	98.7	105.7	105.0	94.2	98.7	89.9																	
1531	62.2	64.0	62.7	C	66.1	65.0	C	C	64.0	61.5	59.1	57.3	61.5	60.9									
1532	77.4	79.7	C	C	78.8	C	78.8	84.2	83.8	80.7	71.2	71.4	70.3	75.1									
1533	82.5	S	87.0	83.8	86.6	82.4	86.4	C	74.3	83.2	C	81.8	80.1	79.5	C	C							
1534	NOT PREGNANT																						
1535	65.1	59.7	D	61.8	60.9	74.4	D	55.4	64.7	66.2	66.9	75.9											
1536	80.8	90.6	79.5	85.5	83.3	89.5	76.3	C	82.7	73.0	C	76.5	71.4										
1537	84.1	C	C	C	83.0	88.6	82.2	90.0	89.5	C	C	83.7	C	84.9	78.5	79.2	80.9						
1538	NOT PREGNANT																						
1539	79.4	S	C	85.0	81.8	88.2	81.2	88.1	78.3	69.3	69.9	C	75.9	76.7									
1540	NOT PREG., NO MATING DATE																						
1541	82.9	89.9	90.5	85.6	C	C	86.4	87.6	79.8	C	C	66.9	79.4	83.1	80.0	M							
1542	69.6	67.2	79.1	68.6	74.5	76.4	C	66.0	69.0	63.6	66.5	64.8											
1543	80.3	82.4	87.3	88.8	82.3	C	78.6	C	77.1	79.9	C	C	76.8	78.3	C	71.7							
1544	82.5	S	C	C	84.8	95.0	87.7	87.9	82.1	80.2	73.8	79.5	74.4	79.6									
1545	70.9	C	66.7	79.7	69.9	72.7	75.3	C	C	67.9	C	70.9	70.5	71.2	64.4	C							
1546	81.0	84.6	74.9	83.6	82.9	86.2	75.9	82.6	C	81.2	80.5	C	77.8	C									
1547	84.7	89.1	88.8	89.1	79.1	82.6	79.5																
1548	NOT PREGNANT																						
1549	TOTAL LITTER LOSS																						
1550	71.3	C	70.4	M	72.0	73.3	70.4	73.4	76.3	75.4	72.1	67.0	62.2										
1551	73.2	80.1	80.7	77.6	73.5	72.0	65.6	67.5	70.9	71.0													
MEAN	78.6																						
S.D.	7.92																						
N	21																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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 28						
		FEMALE#	MEAN	PUP#		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		2526	73.1	C	C	74.9	C	74.6	C	76.8	C	73.7	77.4	78.3	C	68.3	65.5	72.1	69.3					
		2527	71.5	76.3	80.6	67.8	76.1	C	79.7	C	C	C	64.4	64.4	67.9	67.7	69.8							
		2528	71.9	76.2	74.7	74.2	74.5	75.0	C	C	75.5	70.4	68.7	C	C	63.2	66.2	C	C					
		2529	70.9	C	69.1	C	73.3	75.0	76.2	75.9	C	60.5	68.7	69.4	69.5	71.8								
		2530	83.7	S	88.1	88.5	85.3	C	95.6	82.0	75.6	81.7	C	C	82.6	78.5	79.1							
		2531	78.5	C	79.6	78.0	79.9	83.5	C	81.8	C	74.5	C	C	76.1	79.5	M	77.9	74.0					
		2532	77.7	79.2	77.9	77.6	75.1	C	82.7	C	C	79.7	72.4	80.0	77.6	75.2								
		2533	88.3	91.2	C	C	C	90.0	82.6	97.0	C	86.6	C	92.3	89.1	83.2	88.1	82.8	C	C				
		2534	74.2	71.6	C	C	75.8	C	C	76.9	73.1	82.4	69.9	72.2	73.1	76.1	70.8							
		2535	80.1	83.7	69.8	81.3	84.8	83.9	82.6	78.1	81.5	80.6	74.7											
		2536	HUMANE SACRIFICE																					
		2537	91.4	77.3	93.8	105.5	88.9																	
		2538	82.8	81.2	84.5	92.6	D	89.7	87.2	70.6	M	77.9	77.4	84.1										
		2539	76.7	80.8	76.4	81.5	81.1	82.6	71.1	71.7	C	80.0	C	C	69.6	72.5	C							
		2540	77.0	74.3	74.1	C	85.1	76.9	80.4	80.2	78.7	73.8	75.4	71.5										
		2541	77.6	79.5	80.5	81.2	80.8	77.0	69.0	77.3	75.8	73.7	81.6	C	C	C	C							
		2542	79.1	D	83.8	80.9	82.9	77.2	84.6	C	77.3	80.0	73.8	C	75.0	75.5								
		2543	86.9	C	93.2	97.1	92.9	C	82.1	93.4	83.0	78.4	C	C	83.1	C	84.0	81.8	C					
		2544	NOT PREG., NO MATING DATE																					
		2545	80.0	73.1	91.1	90.8	M	80.5	67.9	84.4	80.2	81.3	C	78.1	72.8									
		2546	90.2	96.5	90.8	91.0	C	99.0	C	C	90.2	91.8	90.7	78.7	83.5	C	90.1							
		2547	68.3	71.2	72.0	73.4	71.6	69.7	62.3	C	66.9	64.6	65.6	C	66.0									
		2548	79.7	84.4	84.2	85.0	84.6	C	84.2	C	C	79.0	75.7	80.2	65.3	74.3								
		2549	NOT PREG., NO MATING DATE																					
		2550	68.9	S	42.3	89.6	46.6	70.9	C	74.0	70.6	69.1	75.6	81.1	68.9									
		2551	84.5	86.0	90.2	90.5	87.3	82.2	79.8	C	C	81.5	84.5	80.6	82.7									
MEAN			78.8																					
S.D.			6.60																					
N			23																					

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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	
		3526	NOT PREG., NO MATING DATE																						
		3527	73.0	C	C	74.4	78.5	74.8	C	73.9	C	C	C	73.0	69.8	69.5	69.4	76.8	69.4	C					
		3528	83.3	83.7	77.2	88.2	88.3	88.5	C	C	C	C	C	76.9	77.2	84.4	85.8	82.7							
		3529	78.8	M	C	79.2	86.0	80.8	88.8	85.7	C	77.3	C	70.8	75.8	71.5	72.2	C							
		3530	NOT PREG., NO MATING DATE																						
		3531	65.3	C	81.9	78.2	80.3	41.9	C	61.5	C	65.6	73.2	34.6	73.0	62.3									
		3532	76.9	C	C	80.7	82.7	67.1	79.6	73.6	75.3	83.8	70.4	74.6	81.3										
		3533	62.6	68.1	C	65.7	C	61.7	68.9	62.5	59.5	57.2	C	61.5	60.9	60.3	C	C							
		3534	TOTAL LITTER LOSS																						
		3535	59.5	60.4	D	59.0	62.0	C	60.8	C	64.3	59.4	56.6	57.7	C	C	58.8	55.9							
		3536	73.5	C	77.3	C	C	80.1	73.6	76.5	76.9	73.2	70.5	68.1	71.6	67.2									
		3537	83.4	86.0	89.8	86.3	78.2	C	83.6	C	88.7	89.0	C	80.5	76.0	75.8									
		3538	77.8	77.5	C	C	83.3	78.4	73.1	84.6	73.5	M	77.3	77.5	75.1										
		3539	72.1	72.8	75.5	61.3	71.5	85.2	C	74.9	69.0	C	C	67.4	77.8	65.4									
		3540	83.7	85.1	85.6	93.0	87.8	85.3	C	C	77.0	79.6	79.5	C	D	80.2									
		3541	91.4	100.7	93.2	98.1	95.0	98.4	C	C	C	68.8	C	85.1	91.5	93.9	89.8								
		3542	83.6	87.2	87.0	93.7	82.9	81.7	80.9	85.3	80.4	83.6	73.7												
		3543	74.9	80.0	83.4	71.8	76.1	64.2	C	C	75.3	71.7	81.5	C	71.6	C	73.2	C							
		3544	68.6	C	70.2	74.3	68.6	73.3	68.8	70.5	C	64.6	68.5	C	61.0	65.9									
		3545	84.5	92.3	85.6	91.3	90.1	85.7	C	82.1	83.2	74.3	81.6	C	C	78.4									
		3546	81.1	C	C	87.7	C	81.6	89.9	86.7	86.8	76.7	73.9	71.0	77.5	79.6	C								
		3547	70.3	76.1	75.3	69.0	66.9	73.0	78.4	67.5	63.7	70.0	63.4												
		3548	81.9	82.3	92.3	81.6	91.9	86.1	C	77.6	76.0	77.2	83.5	70.1											
		3549	78.7	S	80.8	78.3	86.9	78.4	C	77.7	73.9	74.7	84.0	C	C	74.0	78.3	C							
		3550	64.8	S	C	69.0	67.0	C	C	63.8	69.6	65.2	60.4	C	C	69.6	C	60.6	60.6	62.6					
		3551	83.9	82.7	85.5	89.3	89.1	88.6	88.1	79.3	C	82.4	C	C	C	78.1	76.1	C							
MEAN			76.2																						
S.D.			8.22																						
N			23																						

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX U F1 GENERATION

GASOLINE DIPE 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
4526	70.2	69.2	C	73.4	77.7	C	69.4	68.5	70.6	C	66.3	70.0	70.7	65.9										
4527	81.0	S	82.3	80.0	81.0	C	82.0	91.0	73.1	84.1	72.9	77.7	85.4											
4528	69.6	C	72.6	C	C	73.3	74.4	73.9	C	69.5	68.3	68.6	C	68.7	58.5	68.1								
4529	78.7	84.2	86.0	77.1	C	76.2	83.4	81.6	C	C	C	C	73.4	74.5	72.8	77.3								
4530	73.7	79.2	73.4	73.3	C	71.6	76.6	73.0	69.1	C	C	C	70.6	73.2	76.9	C								
4531	72.1	72.2	75.1	71.9	77.8	C	74.0	C	71.4	71.3	69.8	68.3	69.0	C	C									
4532	80.6	C	C	85.5	80.5	C	83.9	88.0	92.5	74.7	74.7	74.1	69.6	82.5	C									
4533	68.9	S	74.7	64.3	73.1	68.2	64.3	69.9	67.8	69.2														
4534	80.4	S	S	81.1	85.4	79.0	80.8	84.9	82.2	83.6	79.6	67.3	80.4											
4535	72.5	S	71.8	70.7	80.6	C	74.0	70.0	C	C	C	67.3	72.8	70.5	74.5	72.4								
4536	86.9	C	91.5	94.1	89.4	95.0	89.5	86.1	79.5	73.5	86.1	C	84.4	C	C									
4537	82.2	93.1	70.6	80.6	87.0	87.0	71.4	79.9	C	83.9	81.7	C	C	C	87.0									
4538	HUMANE SACRIFICE																							
4539	80.3	M	M	84.0	95.6	83.9	50.9	85.6	84.2	77.8														
4540	85.0	93.7	90.6	90.1	M	84.2	88.1	80.3	84.3	79.6	C	C	77.2	82.2										
4541	78.9	C	C	70.7	81.4	87.9	84.4	84.1	69.4	77.3	77.2	76.7	79.4											
4542	84.7	86.4	92.7	84.0	89.5	89.1	79.1	80.0	76.8	85.0														
4543	NOT PREG., NO MATING DATE																							
4544	NOT PREG., NO MATING DATE																							
4545	71.5	72.4	78.8	C	73.5	75.7	75.5	70.4	74.5	61.5	69.3	63.6												
4546	74.5	S	D	S	72.3	82.3	78.3	80.7	82.5	71.0	70.2	69.7	68.3	70.1	C									
4547	81.9	C	88.1	89.8	85.7	C	C	C	84.9	87.5	C	81.5	69.6	76.7	78.3	76.9								
4548	67.6	58.6	C	70.6	67.8	75.5	69.3	C	62.8	C	C	64.0	65.7	66.9	74.8									
4549	79.5	79.1	81.6	85.9	C	88.2	78.4	77.4	76.8	79.0	73.6	75.2	C											
4550	71.2	C	C	C	75.3	80.7	72.8	68.5	69.9	C	C	65.3	75.1	64.0	71.3	68.7								
4551	NOT PREGNANT																							
MEAN	76.9																							
S.D.	5.85																							
N	22																							

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1026		NO REMARKABLE OBSERVATIONS
1027		NO REMARKABLE OBSERVATIONS
1028		NO REMARKABLE OBSERVATIONS
1029	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING NOT CONFIRMED
1030		NO REMARKABLE OBSERVATIONS
1031	LIVER	DISCOLORED FOCI; SLIGHT MEDIAN LOBE - 0.1 CM IN DIAMETER, RED
1032		NO REMARKABLE OBSERVATIONS
1033	LUNGS EXTERNAL EXAM	DISCOLORED FOCI; MODERATE ALL LOBES, LESS THAN 0.1 CM IN DIAMETER, TAN INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
1034		NO REMARKABLE OBSERVATIONS
1035		NO REMARKABLE OBSERVATIONS
1036	LIVER KIDNEY	DISCOLORED AREA(S); SLIGHT MEDIAN LOBE - 1.0 CM IN DIAMETER, BROWN DILATED RENAL PELVIS; SLIGHT; RIGHT
1037		NO REMARKABLE OBSERVATIONS
1038	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1039	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
1040		NO REMARKABLE OBSERVATIONS
1041		NO REMARKABLE OBSERVATIONS
1042	KIDNEY EXTERNAL EXAM	DILATED RENAL PELVIS; SLIGHT; RIGHT SWOLLEN DIGIT FIRST DIGIT, LEFT FOREPAW EXTERNAL FINDING CONFIRMED TISSUE SAVED
1043		NO REMARKABLE OBSERVATIONS
1044		NO REMARKABLE OBSERVATIONS
1045	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
1046		NO REMARKABLE OBSERVATIONS
1047		NO REMARKABLE OBSERVATIONS
1048		NO REMARKABLE OBSERVATIONS
1049	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
1050	THYMUS	DISCOLORED FOCUS/FOCI; MODERATE; BILATERAL 0.2 CM IN DIAMETER, RED TISSUE SAVED

APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1051		NO REMARKABLE OBSERVATIONS



## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
2026	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
2027		NO REMARKABLE OBSERVATIONS
2028		NO REMARKABLE OBSERVATIONS
2029		NO REMARKABLE OBSERVATIONS
2030	LUNGS	DISCOLORED FOCI; SLIGHT; LEFT 0.1 CM IN DIAMETER, RED
2031	LUNGS	DISCOLORED FOCI; SLIGHT RIGHT AND LEFT LOBES, RED, 0.2 CM IN DIAMETER
2032		NO REMARKABLE OBSERVATIONS
2033	GONADS	DISCOLORED FOCI ON PROSTATE; SLIGHT RIGHT DORSAL LOBE - 0.1 CM IN DIAMETER, RED
2034	KIDNEY	DILATED RENAL PELVIS; EXTREME; LEFT
2035		NO REMARKABLE OBSERVATIONS
2036	KIDNEY	DILATED RENAL PELVIS; MODERATE; LEFT
2037		NO REMARKABLE OBSERVATIONS
2038		NO REMARKABLE OBSERVATIONS
2039		NO REMARKABLE OBSERVATIONS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
2040		NO REMARKABLE OBSERVATIONS
2041		NO REMARKABLE OBSERVATIONS
2042		NO REMARKABLE OBSERVATIONS
2043		NO REMARKABLE OBSERVATIONS
2044	THYMUS	DISCOLORED FOCUS/FOCI; EXTREME; BILATERAL RED, 0.1 CM IN DIAMETER TISSUE SAVED
2045		NO REMARKABLE OBSERVATIONS
2046		NO REMARKABLE OBSERVATIONS
2047	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT
2048		NO REMARKABLE OBSERVATIONS
2049	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT RED, 0.1 - 0.2 CM DIAMETER TISSUE SAVED
2050	THYMUS	DISCOLORED FOCUS/FOCI; MODERATE; BILATERAL RED, 0.1 CM IN DIAMETER TISSUE SAVED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2051	LUNGS	DISCOLORED FOCI; SLIGHT; LEFT 0.1 CM IN DIAMETER, RED

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3026		NO REMARKABLE OBSERVATIONS
3027		NO REMARKABLE OBSERVATIONS
3028		NO REMARKABLE OBSERVATIONS
3029	THYMUS	DISCOLORED FOCUS/FOCI; MODERATE; LEFT RED, 0.1 CM IN DIAMETER TISSUE SAVED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3030		NO REMARKABLE OBSERVATIONS
3031		NO REMARKABLE OBSERVATIONS
3032		NO REMARKABLE OBSERVATIONS
3033		NO REMARKABLE OBSERVATIONS
3034		NO REMARKABLE OBSERVATIONS
3035		NO REMARKABLE OBSERVATIONS
3036		NO REMARKABLE OBSERVATIONS
3037	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3038	KIDNEY	DILATED RENAL PELVIS; MODERATE; BILATERAL
3039		NO REMARKABLE OBSERVATIONS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3040	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, RED
	LIVER	ADHESION; EXTREME MEDIAN AND RIGHT LOBES TO DIAPHRAGM
	LIVER	NODULE(S) MEDIAN LOBE - 0.5 CM IN DIAMETER, TAN, FIRM NODULE SAVED WITH PART OF DIAPHRAGM
3041	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, WHITE, 0.2 CM IN DIAMETER
3042	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
3043 HS	GROSS EXAM	FRACTURE(S) NASAL BONES TISSUE SAVED
	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
	EXTERNAL EXAM	ORAL SORE HARD PALATE, WITH SCABS, 0.4 CM IN DIAMETER TISSUE SAVED EXTERNAL FINDING CONFIRMED
3044 DIED	THYMUS	DISCOLORED FOCUS/FOCI; MODERATE RED, 0.1 CM IN DIAMETER TISSUE SAVED
	SPLEEN	ENLARGED; EXTREME
	LIVER	ENLARGED; EXTREME ALL LOBES
3045		NO REMARKABLE OBSERVATIONS

DIED=FOUND DEAD

HS=HUMANE SACRIFICE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3046	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
3047	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
3048	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
3049	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
3050	KIDNEY	CYSTIC KIDNEY; SLIGHT; LEFT CORTEX, CLEAR 0.2 CM IN DIAMETER
3051		NO REMARKABLE OBSERVATIONS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4026		NO REMARKABLE OBSERVATIONS
4027	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
4028	LUNGS	DISCOLORED FOCI; SLIGHT DIAPHRAGMATIC LOBE -0.1 CM IN DIAMETER, RED ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
4029		NO REMARKABLE OBSERVATIONS
4030		NO REMARKABLE OBSERVATIONS
4031		NO REMARKABLE OBSERVATIONS
4032	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT; BILATERAL RED, 0.1 CM IN DIAMETER TISSUE SAVED
	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - TAN, 0.1 CM IN DIAMETER
4033		NO REMARKABLE OBSERVATIONS
4034	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
4035	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES, WHITE, 0.1-0.5 CM IN DIAMETER
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
4036	GONADS	DISCOLORED FOCI ON PROSTATE; MODERATE RIGHT VENTRAL LOBE - 0.4 CM IN DIAMETER, RED

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4037		NO REMARKABLE OBSERVATIONS
4038		NO REMARKABLE OBSERVATIONS
4039	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
4040		NO REMARKABLE OBSERVATIONS
4041	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
4042		NO REMARKABLE OBSERVATIONS
4043		NO REMARKABLE OBSERVATIONS
4044	KIDNEY	DISCOLORED FOCUS/FOCI; SLIGHT; RIGHT CORTEX - 0.2 CM IN DIAMETER, BROWN
4045	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
4046		NO REMARKABLE OBSERVATIONS
4047		NO REMARKABLE OBSERVATIONS
4048	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4049	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
4050	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
4051		NO REMARKABLE OBSERVATIONS



## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1526	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	ESTRUS
1527	ESTROUS CYCLE	DIESTRUS
1528	ESTROUS CYCLE	ESTRUS
1529	ESTROUS CYCLE	DIESTRUS
1530	ESTROUS CYCLE	ESTRUS
1531	THORACIC CAVITY	ENLARGED LYMPH NODE(S); MODERATE SUBMANDULAR TISSUE SAVED
	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
1532	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
1533	ESTROUS CYCLE	ESTRUS
1534 NP	EXTERNAL EXAM	RED EXUDATE SNOUT NEGATIVE
	EXTERNAL EXAM	MISSING DIGIT EXTERNAL FINDING CONFIRMED
	SALEWSKI TEST	NO FOCI PRESENT
	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1535	ESTROUS CYCLE	DIESTRUS
1536	ESTROUS CYCLE	DIESTRUS
1537	ESTROUS CYCLE	DIESTRUS
1538 NP	ESTROUS CYCLE SALEWSKI TEST	DIESTRUS NO FOCI PRESENT
1539	ESTROUS CYCLE	DIESTRUS
1540 NNMD	EXTERNAL EXAM ESTROUS CYCLE	SALEWSKI'S TEST NO FOCI PRESENT DIESTRUS
1541	EXTERNAL EXAM ESTROUS CYCLE	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED DIESTRUS
1542	ESTROUS CYCLE	DIESTRUS
1543	LUNGS EXTERNAL EXAM ESTROUS CYCLE	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, 0.1-0.2 CM IN DIAMETER ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED ESTRUS
1544	ADRENALS ESTROUS CYCLE	DISCOLORED ADRENALS; SLIGHT; RIGHT RED DIESTRUS
1545	ESTROUS CYCLE	DIESTRUS

NP=NOT PREGNANT NNMD=NOT PREG., NO MATING DATE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
1546	ESTROUS CYCLE	DIESTRUS
1547	ESTROUS CYCLE	DIESTRUS
1548	NP	EXTERNAL EXAM
		RED EXUDATE SNOUT
		NEGATIVE
		SALEWSKI TEST
		NO FOCI PRESENT
		ESTROUS CYCLE
		ESTRUS
1549	TLL	EXTERNAL EXAM
		ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
		ESTROUS CYCLE
		ESTRUS
1550	ESTROUS CYCLE	PROESTRUS
1551	LUNGS	DISCOLORED FOCI; MODERATE
		ALL LOBES - TAN, 0.1 CM IN DIAMETER
	ESTROUS CYCLE	ESTRUS

NP=NOT PREGNANT TLL=TOTAL LITTER LOSS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
2526	EYES	OPACITY; RIGHT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	PROESTRUS
2527	ESTROUS CYCLE	ESTRUS
2528	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDINGS CONFIRMED
	ESTROUS CYCLE	DIESTRUS
2529	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	METESTRUS
2530	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	ESTRUS
2531	ESTROUS CYCLE	DIESTRUS
2532	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
2533	ESTROUS CYCLE	DIESTRUS
2534	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, WHITE, 0.2 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
2535	ESTROUS CYCLE	ESTRUS
2536	HS	FRACTURE(S) NASAL BONE - BILATERAL SKULL SAVED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
2537	ESTROUS CYCLE	DIESTRUS
2538	ESTROUS CYCLE	DIESTRUS
2539	LUNGS	DISCOLORED FOCI; SLIGHT DIAPHRAGMATIC LOBE - 0.1 CM IN DIAMETER, RED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
2540	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES, 0.1 CM IN DIAMETER, RED
	ESTROUS CYCLE	ESTRUS
2541	ESTROUS CYCLE	METESTRUS
2542	ESTROUS CYCLE	ESTRUS
2543	PNMD	ESTROUS CYCLE DIESTRUS
2544	NNMD	EXTERNAL EXAM SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	DIESTRUS

PNMD=PREGNANT, NO MATING DATE NNMD=NOT PREG., NO MATING DATE HS=HUMANE SACRIFICE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
2545	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
2546	ESTROUS CYCLE	DIESTRUS
2547	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
2548	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING NOT CONFIRMED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	ESTRUS
2549 NNMD	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	DIESTRUS
2550	ESTROUS CYCLE	DIESTRUS
2551	ESTROUS CYCLE	ESTRUS

NNMD=NOT PREG., NO MATING DATE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3526 NNMD	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	ESTRUS
3527	ESTROUS CYCLE	ESTRUS
3528	ESTROUS CYCLE	DIESTRUS
3529	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, 0.1-0.2 CM IN DIAMETER
	ESTROUS CYCLE	ESTRUS
3530 NNMD	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	ESTRUS
3531	ESTROUS CYCLE	DIESTRUS
3532	ESTROUS CYCLE	DIESTRUS
3533	LUNGS	DISCOLORED FOCI; SLIGHT; LEFT LEFT LOBE, 0.1-0.2 CM IN DIAMETER, WHITE
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
3534 TLL	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
3535	ESTROUS CYCLE	ESTRUS

NNMD=NOT PREG., NO MATING DATE TLL=TOTAL LITTER LOSS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3536	ESTROUS CYCLE	DIESTRUS
3537	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	PROESTRUS
3538	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
3539	ESTROUS CYCLE	DIESTRUS
3540	ESTROUS CYCLE	ESTRUS
3541	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
3542	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT BOTH LOBES, 0.1 - 0.2 CM IN DIAMETER, RED TISSUE SAVED
	ESTROUS CYCLE	DIESTRUS
3543	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
3544	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	METESTRUS
3545	ESTROUS CYCLE	DIESTRUS



## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
3546	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
3547	ESTROUS CYCLE	DIESTRUS
3548	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, RED AND TAN
	ESTROUS CYCLE	DIESTRUS
3549	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, LESS THAN 0.1 CM IN DIAMETER, WHITE
	ESTROUS CYCLE	ESTRUS
3550	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
3551	ESTROUS CYCLE	ESTRUS

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4526	ESTROUS CYCLE	DIESTRUS
4527	ESTROUS CYCLE	DIESTRUS
4528	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	ESTRUS
4529	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	PROESTRUS
4530 PNMD	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, 0.2 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
4531	SPLEEN	ADHESION; EXTREME TO STOMACH WALL AND PANCREAS TISSUE SAVED
	ESTROUS CYCLE	DIESTRUS
4532	LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - TAN, 0.1 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
4533	ESTROUS CYCLE	DIESTRUS
4534	ESTROUS CYCLE	DIESTRUS
4535	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

PNMD=PREGNANT, NO MATING DATE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4535 (CONTINUED)	ESTROUS CYCLE	DIESTRUS
4536	ESTROUS CYCLE	DIESTRUS
4537	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	ESTROUS CYCLE	METESTRUS
4538 HS	GROSS EXAM	HEMORRHAGE; MODERATE SKULL - LEFT FRONTAL/NASAL BONES, RED, 1 CM IN DIAMETER SKULL SAVED
	EXTERNAL EXAM	RED EXUDATE SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	SWOLLEN SNOUT EXTERNAL FINDING CONFIRMED TISSUE SAVED
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	ESTROUS CYCLE	DIESTRUS
4539	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, 0.2 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
4540	ESTROUS CYCLE	DIESTRUS
4541	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, LESS THEN 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	ESTRUS
4542	ESTROUS CYCLE	DIESTRUS

HS=HUMANE SACRIFICE

## APPENDIX V P0 GENERATION

GASOLINE DIPE 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
4543 NNMD	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	DIESTRUS
4544 NNMD	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	ESTRUS
4545	ESTROUS CYCLE	ESTRUS
4546	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	ESTROUS CYCLE	DIESTRUS
4547	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, 0.1-0.2 CM IN DIAMETER, WHITE
	ESTROUS CYCLE	DIESTRUS
4548	ESTROUS CYCLE	ESTRUS
4549	ESTROUS CYCLE	ESTRUS
4550	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, WHITE, 0.1-0.2 CM IN DIAMETER
	ESTROUS CYCLE	DIESTRUS
4551 NP	EXTERNAL EXAM	SALEWSKI'S TEST NO FOCI PRESENT
	ESTROUS CYCLE	ESTRUS

NP=NOT PREGNANT NNMD=NOT PREG., NO MATING DATE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1526	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
				GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	6F	K	28	ABDOMINAL CAVITY	DIAPHRAGMATIC HERNIA PART OF MEDIAN LOBE PROTRUDING THROUGH DIAPHRAGM 1.0 x 0.5 CM TISSUE SAVED
	8F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	1527	1M	C	4	
3M		C	4		NO REMARKABLE OBSERVATIONS
4M		K	28		NO REMARKABLE OBSERVATIONS
5M		K	28		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
1528	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	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	8F	D	11	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	9F	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 F1 GENERATION

GASOLINE DIPE 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
1529	1M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
1530	1M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3F	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
1531	1M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUES SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		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
	12F	K	28		NO REMARKABLE OBSERVATIONS
	1532	2M	C	4	
3M		C	4		NO REMARKABLE OBSERVATIONS
4M		K	28		NO REMARKABLE OBSERVATIONS
5M		C	4		NO REMARKABLE OBSERVATIONS
7M		K	28		NO REMARKABLE OBSERVATIONS
9M		K	28		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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1532 (CONTINUED)					
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
1533	1F	S		GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
1535	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	D	8	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	D	1	GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
1536	3M	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	K	28		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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1536	(CONTINUED)				
	10F	C	4		NO REMARKABLE OBSERVATIONS
1537	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
1539	1M	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
	7M	K	28		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
1541	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	7M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE



## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1541	(CONTINUED)				
	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	K	28		NO REMARKABLE OBSERVATIONS
1542	3M	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
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
1543	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	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
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
1544	1M	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1544 (CONTINUED)					
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
1545					
	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	3M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	6M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUE SAVED
	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
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
1546					
	1M	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	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
1547					
	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	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1549	TLL	1F	S	LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	3M	D	2	GROSS EXAM	CANNIBALIZED
	4M	D	2	STOMACH	MILK IN STOMACH
	5M	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	6M	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	7M	D	2	STOMACH	NO MILK IN STOMACH
	8M	D	2	STOMACH	NO MILK IN STOMACH
	9F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	10F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	11F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	12F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	13F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	14F	D	2	GROSS EXAM	AUTOLYSIS POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
1550	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	KIDNEY	CYST(S); SLIGHT; RIGHT CORTEX, CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
12F	K	28	THYMUS	SMALL; SLIGHT TISSUE SAVED	

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

TLL=TOTAL LITTER LOSS

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
1551	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	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: K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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	
2526	1M	C	4		NO REMARKABLE OBSERVATIONS	
	2M	C	4		NO REMARKABLE OBSERVATIONS	
	3M	K	28		NO REMARKABLE OBSERVATIONS	
	4M	C	4		NO REMARKABLE OBSERVATIONS	
	6M	C	4		NO REMARKABLE OBSERVATIONS	
	7M	K	28		NO REMARKABLE OBSERVATIONS	
	8M	C	4		NO REMARKABLE OBSERVATIONS	
	11M	K	28		NO REMARKABLE OBSERVATIONS	
	12M	C	4		NO REMARKABLE OBSERVATIONS	
	14F	K	28		NO REMARKABLE OBSERVATIONS	
	15F	K	28		NO REMARKABLE OBSERVATIONS	
	16F	K	28		NO REMARKABLE OBSERVATIONS	
	2527	1M	K	28		NO REMARKABLE OBSERVATIONS
		2M	K	28		NO REMARKABLE OBSERVATIONS
		4M	K	28		NO REMARKABLE OBSERVATIONS
		5M	C	4		NO REMARKABLE OBSERVATIONS
7M		C	4		NO REMARKABLE OBSERVATIONS	
8M		C	4		NO REMARKABLE OBSERVATIONS	
9F		C	4		NO REMARKABLE OBSERVATIONS	
10F		K	28		NO REMARKABLE OBSERVATIONS	
11F		K	28		NO REMARKABLE OBSERVATIONS	
14F		K	28		NO REMARKABLE OBSERVATIONS	
2528	2M	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	
	8F	K	28		NO REMARKABLE OBSERVATIONS	
	9F	K	28		NO REMARKABLE OBSERVATIONS	
	11F	C	4		NO REMARKABLE OBSERVATIONS	
	12F	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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
2528	(CONTINUED)				
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
2529	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		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
2530	1F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		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
	14F	K	28		NO REMARKABLE OBSERVATIONS
2531	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	4M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
2531	(CONTINUED)				
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
2532	1M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUE SAVED
	3M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	5M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2533	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

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
2534	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2535	2M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	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
2537	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
2538	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	D	0	GROSS EXAM LUNGS STOMACH	CANNIBALIZED LUNG FLOTATION TEST - FOUND DEAD MILK IN STOMACH
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7F	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 K-SCHEDULED SACRIFICE



## APPENDIX W F1 GENERATION

GASOLINE DIPE 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	
2539	2M	K	28		NO REMARKABLE OBSERVATIONS	
	4M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED	
	5M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED	
				GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED	
	6F	K	28		NO REMARKABLE OBSERVATIONS	
	8F	C	4		NO REMARKABLE OBSERVATIONS	
	9F	K	28		NO REMARKABLE OBSERVATIONS	
	10F	C	4		NO REMARKABLE OBSERVATIONS	
	11F	C	4		NO REMARKABLE OBSERVATIONS	
	12F	K	28		NO REMARKABLE OBSERVATIONS	
	14F	C	4		NO REMARKABLE OBSERVATIONS	
	2540	1M	K	28		NO REMARKABLE OBSERVATIONS
		3M	C	4		NO REMARKABLE OBSERVATIONS
		4M	K	28		NO REMARKABLE OBSERVATIONS
6M		K	28		NO REMARKABLE OBSERVATIONS	
7F		K	28		NO REMARKABLE OBSERVATIONS	
8F		K	28		NO REMARKABLE OBSERVATIONS	
11F		K	28		NO REMARKABLE OBSERVATIONS	
2541	1M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED	
	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	
	11F	C	4		NO REMARKABLE OBSERVATIONS	
	12F	C	4		NO REMARKABLE OBSERVATIONS	
	13F	C	4		NO REMARKABLE OBSERVATIONS	
	14F	C	4		NO REMARKABLE OBSERVATIONS	

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
2542	1M	D	0	LUNGS	LUNG FLOTATION TEST - FOUND DEAD
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	5M	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
	2543 PNMD	1M	C	4	
3M		K	28		NO REMARKABLE OBSERVATIONS
4M		K	28		NO REMARKABLE OBSERVATIONS
5M		C	4		NO REMARKABLE OBSERVATIONS
6M		K	28		NO REMARKABLE OBSERVATIONS
8F		K	28		NO REMARKABLE OBSERVATIONS
10F		C	4		NO REMARKABLE OBSERVATIONS
11F		C	4		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
2545		1M	K	28	
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		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: D-DIED C-CULLED K-SCHEDULED SACRIFICE

PNMD=PREGNANT, NO MATING DATE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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	
2546	1M	K	28	KIDNEY	CYST(S); SLIGHT; LEFT CORTEX - CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED	
	2M	K	28		NO REMARKABLE OBSERVATIONS	
	3M	K	28		NO REMARKABLE OBSERVATIONS	
	4M	C	4		NO REMARKABLE OBSERVATIONS	
	6M	C	4		NO REMARKABLE OBSERVATIONS	
	7M	C	4		NO REMARKABLE OBSERVATIONS	
	10F	K	28		NO REMARKABLE OBSERVATIONS	
	11F	K	28		NO REMARKABLE OBSERVATIONS	
	13F	C	4		NO REMARKABLE OBSERVATIONS	
	14F	K	28		NO REMARKABLE OBSERVATIONS	
	2547	1M	K	28		NO REMARKABLE OBSERVATIONS
		2M	K	28		NO REMARKABLE OBSERVATIONS
		4M	K	28		NO REMARKABLE OBSERVATIONS
		5F	K	28		NO REMARKABLE OBSERVATIONS
7F		C	4		NO REMARKABLE OBSERVATIONS	
9F		K	28		NO REMARKABLE OBSERVATIONS	
10F		K	28		NO REMARKABLE OBSERVATIONS	
11F		C	4		NO REMARKABLE OBSERVATIONS	
2548	1M	K	28		NO REMARKABLE OBSERVATIONS	
	2M	K	28		NO REMARKABLE OBSERVATIONS	
	5M	C	4		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	
	10F	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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
2550	1F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2551	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	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
	11F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F-Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3527	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
3528	2M	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
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	3529	2M	C	4	
3M		K	28		NO REMARKABLE OBSERVATIONS
5M		K	28		NO REMARKABLE OBSERVATIONS
6M		K	28		NO REMARKABLE OBSERVATIONS
8F		C	4		NO REMARKABLE OBSERVATIONS
10F		C	4		NO REMARKABLE OBSERVATIONS
11F		K	28		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: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3529	(CONTINUED)				
	15F	C	4		NO REMARKABLE OBSERVATIONS
3531	1M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	EYES	OPACITY; MODERATE; BILATERAL TISSUE SAVED
				EXTERNAL EXAM	DOMED HEAD EXTERNAL FINDING CONFIRMED EXTREME INTERNAL HYDROCEPHALY, EXTREME DECREASE IN CORTICAL THICKNESS, LATERAL VENTRICLES FILLED WITH DISCOLORED (RED) FLUID, CEREBELLUM AND MEDULLA OBLANGATA MISSHAPEN
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28	EXTERNAL EXAM	DOMED HEAD EXTERNAL FINDING CONFIRMED EXTREME INTERNAL HYDROCEPHALY, EXTREME DECREASE IN CORTICAL THICKNESS, LATERAL VENTRICALS FILLED WITH DISCOLORED (RED) FLUID, CEREBELLUM MISSHAPEN TISSUE SAVED
3532	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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		
3533	1M	K	28		NO REMARKABLE OBSERVATIONS		
	2M	C	4		NO REMARKABLE OBSERVATIONS		
	3M	K	28		NO REMARKABLE OBSERVATIONS		
	4M	C	4		NO REMARKABLE OBSERVATIONS		
	5M	K	28		NO REMARKABLE OBSERVATIONS		
	9F	K	28		NO REMARKABLE OBSERVATIONS		
	10F	C	4		NO REMARKABLE OBSERVATIONS		
	11F	K	28		NO REMARKABLE OBSERVATIONS		
	13F	K	28		NO REMARKABLE OBSERVATIONS		
	14F	C	4		NO REMARKABLE OBSERVATIONS		
	15F	C	4		NO REMARKABLE OBSERVATIONS		
	3534	TLL	1F	D	1 LUNGS	LUNG FLOTATION TEST - FOUND DEAD	
					STOMACH	NO MILK IN STOMACH	
				2F	D	1 KIDNEY	ENLARGED KIDNEY(S); MODERATE; BILATERAL
						1 GROSS EXAM	CANNIBALIZED
				GROSS EXAM	SEX UNDETERMINED		
				GROSS EXAM	AUTOLYSIS		
					POST-MORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY		
3535	1M	K	28		NO REMARKABLE OBSERVATIONS		
	2M	D	1	GROSS EXAM	AUTOLYSIS		
						POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY	
	5M	C	4		NO REMARKABLE OBSERVATIONS		
	6M	K	28		NO REMARKABLE OBSERVATIONS		
	7M	C	4		NO REMARKABLE OBSERVATIONS		
	8M	K	28		NO REMARKABLE OBSERVATIONS		
	11F	K	28		NO REMARKABLE OBSERVATIONS		
	12M	C	4		NO REMARKABLE OBSERVATIONS		
	13F	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

TLL=TOTAL LITTER LOSS

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3536	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
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
3537	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3538	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	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
3539	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE



## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3539 (CONTINUED)					
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3540	1M	K	28	KIDNEY	CYST(S); SLIGHT; RIGHT CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28	KIDNEY	CYST(S); SLIGHT; BILATERAL CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUES SAVED
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	D	16	HEAD	V DOMED HEAD; MODERATE EXTREME INTERNAL HYDROCEPHALY
				EYES	OPACITY; BILATERAL
	13F	K	28		NO REMARKABLE OBSERVATIONS
3541	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	KIDNEY	CYST(S); EXTREME; LEFT CORTEX, MULTIPLE, 0.2-2.0 CM IN DIAMETER, CLEAR TISSUE SAVED
				KIDNEY	DILATED RENAL PELVIS; EXTREME; LEFT
				KIDNEY	DISCOLORED; EXTREME; LEFT PALE TISSUE SAVED
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3541	(CONTINUED)				
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
3542	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUE SAVED
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
3543	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		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
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
3544	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3545	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	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	3546	1M	C	4	
2M		C	4		NO REMARKABLE OBSERVATIONS
3M		K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
4M		C	4		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
14F		C	4		NO REMARKABLE OBSERVATIONS
3547	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
3548	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28	GONADS	UNDESCENDED TESTE(S); RIGHT TISSUE SAVED
	6F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3548	(CONTINUED)				
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
3549	1F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	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
	15F	C	4		NO REMARKABLE OBSERVATIONS
3550	1F	S		GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9M	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
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
3551	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
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4526	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		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
4527	1F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
4528	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	K	28		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
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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	
4529	3M	K	28		NO REMARKABLE OBSERVATIONS	
	4M	C	4		NO REMARKABLE OBSERVATIONS	
	5M	K	28		NO REMARKABLE OBSERVATIONS	
	7M	K	28		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	
	13F	K	28		NO REMARKABLE OBSERVATIONS	
	14F	K	28		NO REMARKABLE OBSERVATIONS	
	15F	K	28		NO REMARKABLE OBSERVATIONS	
	4530 PNMD	1M	K	28		NO REMARKABLE OBSERVATIONS
		3M	K	28		NO REMARKABLE OBSERVATIONS
		4M	C	4		NO REMARKABLE OBSERVATIONS
		5M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUE SAVED
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		C	4		NO REMARKABLE OBSERVATIONS	
14F		K	28		NO REMARKABLE OBSERVATIONS	
15F		C	4		NO REMARKABLE OBSERVATIONS	
4531		2M	K	28		NO REMARKABLE OBSERVATIONS
		3M	K	28		NO REMARKABLE OBSERVATIONS
		4M	K	28		NO REMARKABLE OBSERVATIONS
		5M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS	
	8F	K	28		NO REMARKABLE OBSERVATIONS	
	9F	K	28		NO REMARKABLE OBSERVATIONS	
	12F	K	28		NO REMARKABLE OBSERVATIONS	
	13F	C	4		NO REMARKABLE OBSERVATIONS	

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

PNMD=PREGNANT, NO MATING DATE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4531	(CONTINUED)				
	14F	C	4		NO REMARKABLE OBSERVATIONS
4532	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	5M	C	4		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
	11F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4533	1M	S		LUNGS	LUNG FLOTATION TEST-STILLBORN
				STOMACH	NO MILK IN STOMACH
				STOMACH	SMALL; EXTREME
				KIDNEY	M FUSED KIDNEY
				INTESTINES	A UNDERDEVELOPMENT OF INTESTINE INTESTINES REDUCED TO A SMALL MASS.
				INTESTINES	ANAL ATRESIA
				GONADS	UNDESCENDED TESTE(S); RIGHT
				ABDOMINAL CAVITY	GASTROSCHISIS FISSURE OF ABDOMINAL WALL AT THE MEDIAN LINE. SMALL PART OF INTESTINES PROTRUDE.
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE



## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4534	1M	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	4535	1M	S		LUNGS STOMACH
4M		K	28		NO REMARKABLE OBSERVATIONS
5M		C	4		NO REMARKABLE OBSERVATIONS
6M		K	28		NO REMARKABLE OBSERVATIONS
7M		K	28		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
14F		K	28		NO REMARKABLE OBSERVATIONS
15F		K	28		NO REMARKABLE OBSERVATIONS
16F		K	28		NO REMARKABLE OBSERVATIONS
4536		1M	C	4	
	2M	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	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4536	(CONTINUED)				
	14F	C	4		NO REMARKABLE OBSERVATIONS
4537	1M	K	28	GONADS	UNDESCENDED TESTE(S); BILATERAL TISSUES SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		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
	13F	C	4		NO REMARKABLE OBSERVATIONS
4538	HS	1U	S	GROSS EXAM GROSS EXAM	CANNIBALIZED SEX UNDETERMINED
	2M	U	14		NO REMARKABLE OBSERVATIONS
	3M	U	14		NO REMARKABLE OBSERVATIONS
	4M	U	14		NO REMARKABLE OBSERVATIONS
	5M	U	14		NO REMARKABLE OBSERVATIONS
	6M	U	14		NO REMARKABLE OBSERVATIONS
	7F	U	14		NO REMARKABLE OBSERVATIONS
	8F	U	14		NO REMARKABLE OBSERVATIONS
	9F	U	14		NO REMARKABLE OBSERVATIONS
	10F	U	14		NO REMARKABLE OBSERVATIONS
	11F	U	14		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
4539	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE U-UNSCHEDULED SACRIFICE

HS=HUMANE SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4539	(CONTINUED)				
	6F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
4540	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	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	K	28		NO REMARKABLE OBSERVATIONS
4541	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
	4M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	5M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
4542	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	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
4545	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4545	(CONTINUED)				
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
4546	1F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	2F	D	0	STOMACH LUNGS	NO MILK IN STOMACH LUNG FLOTATION TEST - FOUND DEAD
	3F	S		LUNGS STOMACH	LUNG FLOTATION TEST-STILLBORN NO MILK IN STOMACH
	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	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4547	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
4548	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	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

## APPENDIX W F1 GENERATION

GASOLINE DIPE 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
4548	(CONTINUED)				
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		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
	12F	K	28	THYMUS	DISCOLORED FOCI; MODERATE BOTH LOBES - 0.1 CM IN DIAMETER, RED TISSUE SAVED
4549	3M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28	GONADS	UNDESCENDED TESTE(S); LEFT TISSUE SAVED
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
4550	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	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		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

SEX CODES: M=Male, F=Female, U=Undetermined

PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

	Individual Parental Organ Weights Preface	Appendix X
--	--	------------

**Key to Abbreviations:**

g	=	Grams
FBW	=	Final Body Weight
SEM. VES & CO.GL.	=	Seminal Vesicles and Coagulating Glands

**NOTES:**

1. Due to an apparent weighing error, the right epididymis weight for Animal No. 2043 is not presented in the following appendix.
2. Due to computer limitation, values for %FBW less than 0.0001 do not appear in this appendix.

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	TESTIS - RIGHT			TESTIS - LEFT			TESTES			PROSTATE		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1026	596	1.7993	0.0030	0.8163	1.7939	0.0030	0.8139	3.5711	0.0060	1.6201	1.0581	0.0018	0.4800
1027	595	1.7557	0.0030	0.7673	1.7465	0.0029	0.7633	3.4946	0.0059	1.5273	1.0416	0.0018	0.4552
1028	554	1.6881	0.0030	0.7468	1.6812	0.0030	0.7437	3.3187	0.0060	1.4681	1.7335	0.0031	0.7669
1029	522	1.5302	0.0029	0.7426	1.5624	0.0030	0.7582	3.0878	0.0059	1.4985	0.7730	0.0015	0.3751
1030	574	1.7717	0.0031	0.7913	1.8094	0.0032	0.8081	3.5800	0.0062	1.5989	1.5824	0.0028	0.7067
1031	547	1.5122	0.0028	0.7255	1.4277	0.0026	0.6849	2.9311	0.0054	1.4062	1.0058	0.0018	0.4825
1032	621	1.8170	0.0029	0.7711	1.8152	0.0029	0.7703	3.6322	0.0058	1.5414	1.5616	0.0025	0.6627
1033	561	1.9301	0.0034	0.8254	1.9521	0.0035	0.8348	3.8788	0.0069	1.6588	0.6683	0.0012	0.2858
1034	512	1.4359	0.0028	0.7017	1.5098	0.0030	0.7378	2.9438	0.0058	1.4385	1.2219	0.0024	0.5971
1035	535	1.8372	0.0034	0.8900	1.8268	0.0034	0.8850	3.6543	0.0068	1.7703	1.4368	0.0027	0.6961
1036	597	1.8088	0.0030	0.8104	1.9348	0.0032	0.8668	3.7108	0.0062	1.6625	1.4726	0.0025	0.6598
1037	522	1.5800	0.0030	0.7539	1.5592	0.0030	0.7439	3.1302	0.0060	1.4935	1.1181	0.0021	0.5335
1038	582	1.5886	0.0027	0.7629	1.5947	0.0027	0.7658	3.1793	0.0055	1.5267	1.0151	0.0017	0.4875
1039	510	1.5938	0.0031	0.7586	1.5508	0.0030	0.7381	3.1318	0.0061	1.4906	1.1260	0.0022	0.5359
1040	661	1.8173	0.0027	0.8110	1.7817	0.0027	0.7952	3.5884	0.0054	1.6015	1.4564	0.0022	0.6500
1041	683	1.8513	0.0027	0.8461	1.8152	0.0027	0.8296	3.6553	0.0054	1.6705	1.0450	0.0015	0.4776
1042	687	1.7695	0.0026	0.7792	1.7796	0.0026	0.7837	3.5494	0.0052	1.5630	1.0055	0.0015	0.4428
1043	445	1.7503	0.0039	0.8071	1.6880	0.0038	0.7783	3.4333	0.0077	1.5831	1.0918	0.0025	0.5034
1044	635	1.5616	0.0025	0.7607	1.6105	0.0025	0.7845	3.1681	0.0050	1.5432	1.3382	0.0021	0.6519
1045	555	1.7361	0.0031	0.8638	1.7920	0.0032	0.8916	3.5117	0.0063	1.7472	1.2788	0.0023	0.6363
1046	594	1.6286	0.0027	0.7228	1.5760	0.0027	0.6994	3.2102	0.0054	1.4247	1.4828	0.0025	0.6581
1047	530	1.7351	0.0033	0.8288	1.7488	0.0033	0.8353	3.4905	0.0066	1.6673	1.1052	0.0021	0.5279
1048	625	1.4819	0.0024	0.6557	1.4681	0.0023	0.6496	2.9271	0.0047	1.2952	1.2858	0.0021	0.5689
1049	605	1.9999	0.0033	0.9230	2.0042	0.0033	0.9250	4.0212	0.0066	1.8558	1.3470	0.0022	0.6217
1050	597	1.7741	0.0030	0.7531	1.7452	0.0029	0.7408	3.5344	0.0059	1.5003	0.9414	0.0016	0.3996
1051	505	1.6026	0.0032	0.7953	1.5959	0.0032	0.7919	3.2030	0.0063	1.5894	1.2348	0.0024	0.6127

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	TESTIS - RIGHT			TESTIS - LEFT			TESTES			PROSTATE		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2026	505	1.5245	0.0030	0.7001	1.6044	0.0032	0.7367	3.1258	0.0062	1.4354	1.0736	0.0021	0.4930
2027	511	1.6583	0.0032	0.7244	1.7121	0.0033	0.7479	3.3680	0.0066	1.4713	1.0069	0.0020	0.4398
2028	567	1.7076	0.0030	0.7873	1.6956	0.0030	0.7817	3.3713	0.0060	1.5543	1.5233	0.0027	0.7023
2029	588	1.6714	0.0028	0.7867	1.6794	0.0029	0.7905	3.3367	0.0057	1.5706	1.1011	0.0019	0.5183
2030	625	1.6981	0.0027	0.7488	1.6291	0.0026	0.7184	3.3269	0.0053	1.4671	1.1333	0.0018	0.4998
2031	516	1.7142	0.0033	0.8084	1.6127	0.0031	0.7605	3.3238	0.0064	1.5675	1.3548	0.0026	0.6389
2032	492	1.8586	0.0038	0.8846	1.7882	0.0036	0.8511	3.6445	0.0074	1.7346	1.1312	0.0023	0.5384
2033	639	1.5580	0.0024	0.7042	1.6148	0.0025	0.7299	3.1729	0.0050	1.4341	1.0875	0.0017	0.4915
2034	608	1.7149	0.0028	0.8006	1.6876	0.0028	0.7879	3.4010	0.0056	1.5878	1.1032	0.0018	0.5151
2035	504	1.6905	0.0034	0.8342	1.6329	0.0032	0.8058	3.3173	0.0066	1.6370	0.9001	0.0018	0.4442
2036	491	1.7842	0.0036	0.7794	1.7415	0.0035	0.7607	3.4955	0.0071	1.5270	1.2491	0.0025	0.5456
2037	572	1.8589	0.0032	0.8302	1.9142	0.0033	0.8549	3.7319	0.0065	1.6668	1.2487	0.0022	0.5577
2038	540	1.6706	0.0031	0.7739	1.7581	0.0033	0.8144	3.4002	0.0063	1.5750	1.4708	0.0027	0.6813
2039	582	1.4696	0.0025	0.6710	1.6069	0.0028	0.7337	3.0614	0.0053	1.3978	1.1126	0.0019	0.5080
2040	581	1.6926	0.0029	0.8062	1.6572	0.0029	0.7894	3.3441	0.0058	1.5929	1.5279	0.0026	0.7278
2041	614	1.8165	0.0030	0.8434	1.8179	0.0030	0.8440	3.6254	0.0059	1.6832	0.9897	0.0016	0.4595
2042	551	1.5531	0.0028	0.7493	1.5118	0.0027	0.7294	3.0543	0.0055	1.4737	1.0920	0.0020	0.5269
2043	640	1.6935	0.0026	0.7678	1.6895	0.0026	0.7660	3.3691	0.0053	1.5275	1.2020	0.0019	0.5450
2044	674	1.6068	0.0024	0.7526	1.5856	0.0024	0.7427	3.1837	0.0047	1.4913	0.8473	0.0013	0.3969
2045	664	1.6855	0.0025	0.7908	1.6646	0.0025	0.7810	3.3423	0.0050	1.5681	1.1005	0.0017	0.5163
2046	563	1.5739	0.0028	0.7481	1.5524	0.0028	0.7379	3.1279	0.0056	1.4867	1.3885	0.0025	0.6600
2047	598	1.6604	0.0028	0.7845	1.6592	0.0028	0.7840	3.3100	0.0055	1.5640	1.2626	0.0021	0.5966
2048	495	1.7914	0.0036	0.8384	1.8012	0.0036	0.8430	3.5840	0.0072	1.6774	1.0083	0.0020	0.4719
2049	697	1.7536	0.0025	0.7800	1.7164	0.0025	0.7634	3.4671	0.0050	1.5421	1.1086	0.0016	0.4931
2050	606	1.5748	0.0026	0.7172	1.5947	0.0026	0.7262	3.1389	0.0052	1.4294	0.9434	0.0016	0.4296
2051	545	1.6132	0.0030	0.7408	1.6850	0.0031	0.7738	3.2996	0.0061	1.5153	0.7812	0.0014	0.3588

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT



## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	TESTIS - RIGHT			TESTIS - LEFT			TESTES			PROSTATE		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3026	575	1.6386	0.0028	0.7780	1.6814	0.0029	0.7983	3.3205	0.0058	1.5766	0.9738	0.0017	0.4624
3027	485	1.7334	0.0036	0.8623	1.7602	0.0036	0.8757	3.4877	0.0072	1.7351	0.9520	0.0020	0.4736
3028	625	1.8099	0.0029	0.8058	1.7912	0.0029	0.7975	3.5665	0.0057	1.5879	1.7572	0.0028	0.7823
3029	611	1.6481	0.0027	0.7617	1.5417	0.0025	0.7125	3.1848	0.0052	1.4719	1.3883	0.0023	0.6416
3030	627	1.9387	0.0031	0.8891	1.9716	0.0031	0.9042	3.8900	0.0062	1.7841	1.3376	0.0021	0.6135
3031	524	1.5786	0.0030	0.7600	1.5739	0.0030	0.7578	3.1412	0.0060	1.5124	1.1755	0.0022	0.5660
3032	510	1.5368	0.0030	0.7155	1.6427	0.0032	0.7648	3.1535	0.0062	1.4682	1.0800	0.0021	0.5028
3033	587	1.6921	0.0029	0.7995	1.6596	0.0028	0.7842	3.3457	0.0057	1.5808	1.6520	0.0028	0.7806
3034	594	1.7101	0.0029	0.7528	1.7133	0.0029	0.7542	3.3816	0.0057	1.4886	0.8583	0.0014	0.3778
3035	624	2.0352	0.0033	0.8802	2.0943	0.0034	0.9057	4.1095	0.0066	1.7772	1.5748	0.0025	0.6811
3036	505	1.7243	0.0034	0.8159	1.7844	0.0035	0.8443	3.4736	0.0069	1.6435	1.8031	0.0036	0.8531
3037	577	1.7958	0.0031	0.8231	1.7626	0.0031	0.8079	3.5381	0.0061	1.6217	1.2175	0.0021	0.5581
3038	569	1.7906	0.0031	0.8153	1.8088	0.0032	0.8236	3.5855	0.0063	1.6326	1.3860	0.0024	0.6311
3039	568	1.8495	0.0033	0.8419	1.8858	0.0033	0.8584	3.7134	0.0065	1.6904	0.9385	0.0017	0.4272
3040	660	1.6888	0.0026	0.7879	1.7724	0.0027	0.8269	3.4591	0.0052	1.6138	1.2118	0.0018	0.5653
3041	629	1.5568	0.0025	0.7240	1.5861	0.0025	0.7376	3.1365	0.0050	1.4586	1.3628	0.0022	0.6337
3042	553	1.7494	0.0032	0.8242	1.7364	0.0031	0.8181	3.4694	0.0063	1.6345	1.0542	0.0019	0.4967
3045	476	1.6271	0.0034	0.7336	1.6651	0.0035	0.7507	3.2985	0.0069	1.4872	1.0570	0.0022	0.4766
3046	536	1.8476	0.0034	0.8550	1.8307	0.0034	0.8472	3.6691	0.0068	1.6979	1.1521	0.0021	0.5331
3047	559	1.9826	0.0035	0.9524	2.0046	0.0036	0.9630	3.9827	0.0071	1.9133	1.3078	0.0023	0.6283
3048	559	1.6910	0.0030	0.8038	1.6290	0.0029	0.7743	3.3218	0.0059	1.5790	1.2461	0.0022	0.5923
3049	550	1.9390	0.0035	0.8704	1.9360	0.0035	0.8691	3.8820	0.0071	1.7427	1.0790	0.0020	0.4844
3050	660	1.6530	0.0025	0.6948	1.6370	0.0025	0.6881	3.2650	0.0049	1.3724	1.2808	0.0019	0.5384
3051	646	1.7778	0.0028	0.8149	1.7567	0.0027	0.8052	3.5284	0.0055	1.6173	1.3625	0.0021	0.6245

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	TESTIS - RIGHT			TESTIS - LEFT			TESTES			PROSTATE		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4026	642	1.7615	0.0027	0.8302	1.7261	0.0027	0.8135	3.4808	0.0054	1.6404	1.3245	0.0021	0.6242
4027	512	1.5946	0.0031	0.7306	1.5652	0.0031	0.7172	3.1547	0.0062	1.4455	1.2075	0.0024	0.5533
4028	597	1.9704	0.0033	0.9385	1.8835	0.0032	0.8971	3.8503	0.0065	1.8339	0.8864	0.0015	0.4222
4029	657	1.8850	0.0029	0.8429	1.9263	0.0029	0.8613	3.7879	0.0058	1.6937	1.0052	0.0015	0.4495
4030	591	1.7362	0.0029	0.7963	1.8032	0.0031	0.8270	3.5260	0.0060	1.6172	1.2066	0.0020	0.5534
4031	504	1.7098	0.0034	0.7742	1.6729	0.0033	0.7574	3.3677	0.0067	1.5248	1.2415	0.0025	0.5621
4032	783	1.5324	0.0020	0.7186	1.4908	0.0019	0.6991	3.0010	0.0038	1.4073	1.1647	0.0015	0.5462
4033	530	1.8109	0.0034	0.8655	1.7504	0.0033	0.8366	3.5416	0.0067	1.6927	1.4101	0.0027	0.6739
4034	553	1.7124	0.0031	0.8533	1.6687	0.0030	0.8315	3.3608	0.0061	1.6747	1.1010	0.0020	0.5486
4035	498	1.7213	0.0035	0.8608	1.7647	0.0035	0.8825	3.4675	0.0070	1.7341	1.2432	0.0025	0.6217
4036	596	1.8719	0.0031	0.8477	1.8484	0.0031	0.8370	3.7217	0.0062	1.6853	0.8787	0.0015	0.3979
4037	550	1.7254	0.0031	0.8475	1.8409	0.0033	0.9043	3.5455	0.0065	1.7416	1.8010	0.0033	0.8847
4038	520	1.7512	0.0034	0.8566	1.7068	0.0033	0.8349	3.4405	0.0066	1.6830	1.7594	0.0034	0.8606
4039	552	2.0844	0.0038	1.0057	2.0478	0.0037	0.9881	4.1307	0.0075	1.9931	1.0967	0.0020	0.5292
4040	552	1.8674	0.0034	0.8782	1.8224	0.0033	0.8570	3.6792	0.0067	1.7302	1.4292	0.0026	0.6721
4041	530	1.6517	0.0031	0.7851	1.6291	0.0031	0.7743	3.2755	0.0062	1.5569	0.7926	0.0015	0.3767
4042	595	1.7660	0.0030	0.8193	1.6963	0.0028	0.7870	3.4475	0.0058	1.5995	0.9881	0.0017	0.4584
4043	521	1.6245	0.0031	0.7721	1.6510	0.0032	0.7847	3.2654	0.0063	1.5521	0.8865	0.0017	0.4214
4044	541	1.7284	0.0032	0.8179	1.8509	0.0034	0.8759	3.5761	0.0066	1.6923	1.0462	0.0019	0.4951
4045	566	1.8256	0.0032	0.8568	1.7698	0.0031	0.8307	3.5931	0.0064	1.6864	1.4511	0.0026	0.6811
4046	578	1.6690	0.0029	0.7309	1.6812	0.0029	0.7362	3.3158	0.0057	1.4521	1.1782	0.0020	0.5160
4047	608	1.9350	0.0032	0.9329	1.8670	0.0031	0.9001	3.8087	0.0063	1.8362	1.3182	0.0022	0.6355
4048	655	1.8074	0.0028	0.7686	1.8386	0.0028	0.7819	3.6364	0.0056	1.5464	1.4425	0.0022	0.6134
4049	534	1.6480	0.0031	0.7864	1.6113	0.0030	0.7689	3.2636	0.0061	1.5573	1.2141	0.0023	0.5793
4050	463	1.6948	0.0037	0.8261	1.6150	0.0035	0.7872	3.3129	0.0071	1.6149	1.0667	0.0023	0.5200
4051	551	1.8084	0.0033	0.8324	1.8410	0.0033	0.8474	3.6360	0.0066	1.6736	0.8900	0.0016	0.4097

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	SEM.VES & CO.GL.			EPIDIDYMIS RIGHT			EPIDIDYMIS LEFT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1026	596	1.9912	0.0033	0.9034	0.6269	0.0011	0.2844	0.6412	0.0011	0.2909	1.2402	0.0021	0.5627
1027	595	1.6469	0.0028	0.7198	0.7436	0.0012	0.3250	0.7397	0.0012	0.3233	1.4763	0.0025	0.6452
1028	554	1.2242	0.0022	0.5416	0.6839	0.0012	0.3025	0.7512	0.0014	0.3323	1.3579	0.0025	0.6007
1029	522	2.0439	0.0039	0.9919	0.6781	0.0013	0.3291	0.6742	0.0013	0.3272	1.3496	0.0026	0.6550
1030	574	1.6700	0.0029	0.7459	0.7653	0.0013	0.3418	0.7351	0.0013	0.3283	1.5009	0.0026	0.6703
1031	547	1.5901	0.0029	0.7629	0.6676	0.0012	0.3203	0.6184	0.0011	0.2967	1.2868	0.0024	0.6173
1032	621	1.4172	0.0023	0.6014	0.7334	0.0012	0.3112	0.8023	0.0013	0.3405	1.5344	0.0025	0.6512
1033	561	1.8686	0.0033	0.7991	0.7273	0.0013	0.3110	0.7151	0.0013	0.3058	1.4413	0.0026	0.6164
1034	512	1.9693	0.0038	0.9623	0.5679	0.0011	0.2775	0.5757	0.0011	0.2813	1.1448	0.0022	0.5594
1035	535	1.9474	0.0036	0.9434	0.7740	0.0014	0.3750	0.7168	0.0013	0.3473	1.4971	0.0028	0.7253
1036	597	2.7034	0.0045	1.2112	0.7566	0.0013	0.3390	0.7185	0.0012	0.3219	1.4455	0.0024	0.6476
1037	522	1.8864	0.0036	0.9000	0.6120	0.0012	0.2920	0.6408	0.0012	0.3057	1.2492	0.0024	0.5960
1038	582	2.3289	0.0040	1.1184	0.7701	0.0013	0.3698	0.7055	0.0012	0.3388	1.4664	0.0025	0.7042
1039	510	1.6997	0.0033	0.8090	0.6275	0.0012	0.2987	0.6298	0.0012	0.2998	1.2484	0.0024	0.5942
1040	661	2.0372	0.0031	0.9092	0.7811	0.0012	0.3486	0.8497	0.0013	0.3792	1.6089	0.0024	0.7180
1041	683	1.8921	0.0028	0.8647	0.6679	0.0010	0.3052	0.6946	0.0010	0.3174	1.3486	0.0020	0.6163
1042	687	2.1539	0.0031	0.9485	0.6861	0.0010	0.3021	0.6686	0.0010	0.2944	1.3447	0.0020	0.5921
1043	445	1.8358	0.0041	0.8465	0.7571	0.0017	0.3491	0.7503	0.0017	0.3460	1.5008	0.0034	0.6920
1044	635	1.9786	0.0031	0.9638	0.6915	0.0011	0.3368	0.6902	0.0011	0.3362	1.3677	0.0022	0.6662
1045	555	1.7824	0.0032	0.8868	0.6592	0.0012	0.3280	0.6985	0.0013	0.3475	1.3545	0.0024	0.6739
1046	594	2.3070	0.0039	1.0238	0.7106	0.0012	0.3154	0.7428	0.0013	0.3296	1.4110	0.0024	0.6262
1047	530	2.0412	0.0039	0.9750	0.7321	0.0014	0.3497	0.7514	0.0014	0.3589	1.4803	0.0028	0.7071
1048	625	1.8270	0.0029	0.8084	0.7523	0.0012	0.3329	0.7723	0.0012	0.3417	1.5026	0.0024	0.6649
1049	605	2.4220	0.0040	1.1178	0.8184	0.0014	0.3777	0.7337	0.0012	0.3386	1.5494	0.0026	0.7151
1050	597	1.6624	0.0028	0.7057	0.7205	0.0012	0.3058	0.6800	0.0011	0.2886	1.4068	0.0024	0.5972
1051	505	1.1790	0.0023	0.5851	0.6572	0.0013	0.3261	0.5699	0.0011	0.2828	1.2310	0.0024	0.6109

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	SEM.VES & CO.GL.			EPIDIDYMIS RIGHT			EPIDIDYMIS LEFT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2026	505	1.5743	0.0031	0.7229	0.6916	0.0014	0.3176	0.6495	0.0013	0.2983	1.3370	0.0026	0.6140
2027	511	1.1878	0.0023	0.5189	0.7026	0.0014	0.3069	0.6810	0.0013	0.2975	1.3813	0.0027	0.6034
2028	567	2.0938	0.0037	0.9653	0.7844	0.0014	0.3616	0.8253	0.0015	0.3805	1.5779	0.0028	0.7275
2029	588	2.3799	0.0041	1.1202	0.8067	0.0014	0.3797	0.7917	0.0013	0.3727	1.5701	0.0027	0.7390
2030	625	2.1051	0.0034	0.9283	0.7894	0.0013	0.3481	0.6914	0.0011	0.3049	1.4708	0.0024	0.6486
2031	516	2.3005	0.0045	1.0849	0.6846	0.0013	0.3228	0.6554	0.0013	0.3091	1.3385	0.0026	0.6312
2032	492	1.7739	0.0036	0.8443	0.8290	0.0017	0.3946	0.7301	0.0015	0.3475	1.5541	0.0032	0.7397
2033	639	2.4335	0.0038	1.0999	0.6734	0.0011	0.3044	0.6630	0.0010	0.2997	1.3314	0.0021	0.6018
2034	608	2.1199	0.0035	0.9897	0.7231	0.0012	0.3376	0.7394	0.0012	0.3452	1.4605	0.0024	0.6819
2035	504	1.6221	0.0032	0.8004	0.6751	0.0013	0.3331	0.7346	0.0015	0.3625	1.4098	0.0028	0.6957
2036	491	1.6809	0.0034	0.7343	0.7494	0.0015	0.3274	0.7547	0.0015	0.3297	1.4823	0.0030	0.6475
2037	572	1.8144	0.0032	0.8104	0.7693	0.0013	0.3436	0.7425	0.0013	0.3316	1.4773	0.0026	0.6598
2038	540	2.5517	0.0047	1.1820	0.8472	0.0016	0.3924	0.8116	0.0015	0.3759	1.6193	0.0030	0.7501
2039	582	1.7870	0.0031	0.8159	0.7270	0.0012	0.3319	0.7817	0.0013	0.3569	1.5015	0.0026	0.6856
2040	581	2.0468	0.0035	0.9749	0.7143	0.0012	0.3402	0.7383	0.0013	0.3517	1.4503	0.0025	0.6908
2041	614	1.5050	0.0025	0.6987	0.6854	0.0011	0.3182	0.6819	0.0011	0.3166	1.3568	0.0022	0.6299
2042	551	1.2961	0.0024	0.6253	0.7620	0.0014	0.3677	0.6562	0.0012	0.3166	1.4041	0.0026	0.6775
2043	640	1.3546	0.0021	0.6142				0.7383	0.0012	0.3347	1.4822	0.0023	0.6720
2044	674	1.8257	0.0027	0.8552	0.7243	0.0011	0.3393	0.7241	0.0011	0.3392	1.4317	0.0021	0.6706
2045	664	1.6518	0.0025	0.7749	0.7756	0.0012	0.3639	0.8130	0.0012	0.3814	1.5797	0.0024	0.7411
2046	563	1.5639	0.0028	0.7433	0.6716	0.0012	0.3192	0.6782	0.0012	0.3224	1.3470	0.0024	0.6402
2047	598	2.3298	0.0039	1.1008	0.7565	0.0013	0.3574	0.7166	0.0012	0.3386	1.4613	0.0024	0.6905
2048	495	1.8268	0.0037	0.8550	0.7508	0.0015	0.3514	0.6497	0.0013	0.3041	1.3899	0.0028	0.6505
2049	697	2.2349	0.0032	0.9940	0.8032	0.0012	0.3572	0.7712	0.0011	0.3430	1.5735	0.0023	0.6999
2050	606	1.9345	0.0032	0.8810	0.6150	0.0010	0.2801	0.6659	0.0011	0.3032	1.2516	0.0021	0.5700
2051	545	1.5891	0.0029	0.7298	0.6427	0.0012	0.2952	0.6348	0.0012	0.2915	1.2756	0.0023	0.5858

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	SEM.VES & CO.GL.			EPIDIDYMIS RIGHT			EPIDIDYMIS LEFT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3026	575	2.4182	0.0042	1.1482	0.6871	0.0012	0.3262	0.7432	0.0013	0.3529	1.4230	0.0025	0.6757
3027	485	1.8991	0.0039	0.9448	0.7503	0.0015	0.3733	0.7429	0.0015	0.3696	1.4951	0.0031	0.7438
3028	625	1.8973	0.0030	0.8447	0.7838	0.0013	0.3490	0.7725	0.0012	0.3439	1.5956	0.0026	0.7104
3029	611	2.3883	0.0039	1.1038	0.6996	0.0011	0.3233	0.6984	0.0011	0.3228	1.3928	0.0023	0.6437
3030	627	1.9354	0.0031	0.8876	0.8390	0.0013	0.3848	0.8147	0.0013	0.3736	1.6355	0.0026	0.7501
3031	524	1.9386	0.0037	0.9334	0.6610	0.0013	0.3182	0.6359	0.0012	0.3062	1.2939	0.0025	0.6230
3032	510	1.6818	0.0033	0.7830	0.6917	0.0014	0.3221	0.6894	0.0014	0.3210	1.3418	0.0026	0.6247
3033	587	2.6938	0.0046	1.2728	0.8131	0.0014	0.3842	0.7644	0.0013	0.3612	1.5583	0.0027	0.7363
3034	594	2.1860	0.0037	0.9623	0.7115	0.0012	0.3132	0.7308	0.0012	0.3217	1.4099	0.0024	0.6206
3035	624	1.2161	0.0019	0.5259	0.8112	0.0013	0.3508	0.8053	0.0013	0.3483	1.5870	0.0025	0.6863
3036	505	2.2141	0.0044	1.0476	0.7873	0.0016	0.3725	0.8849	0.0018	0.4187	1.6551	0.0033	0.7831
3037	577	1.9245	0.0033	0.8821	0.7387	0.0013	0.3386	0.7654	0.0013	0.3508	1.4826	0.0026	0.6796
3038	569	1.9414	0.0034	0.8840	0.8297	0.0015	0.3778	0.8247	0.0014	0.3755	1.6418	0.0029	0.7476
3039	568	1.6585	0.0029	0.7550	0.6849	0.0012	0.3118	0.7092	0.0012	0.3228	1.3853	0.0024	0.6306
3040	660	1.6262	0.0025	0.7587	0.7137	0.0011	0.3330	0.6658	0.0010	0.3106	1.3679	0.0021	0.6382
3041	629	1.8279	0.0029	0.8500	0.7670	0.0012	0.3567	0.7426	0.0012	0.3453	1.5053	0.0024	0.7000
3042	553	2.2894	0.0041	1.0786	0.8028	0.0015	0.3782	0.7604	0.0014	0.3582	1.5579	0.0028	0.7340
3045	476	1.9320	0.0041	0.8711	0.7408	0.0016	0.3340	0.7358	0.0015	0.3317	1.4820	0.0031	0.6682
3046	536	2.0079	0.0037	0.9292	0.7533	0.0014	0.3486	0.7906	0.0015	0.3658	1.5304	0.0029	0.7082
3047	559	1.9578	0.0035	0.9405	0.7413	0.0013	0.3561	0.7573	0.0014	0.3638	1.4945	0.0027	0.7180
3048	559	2.0985	0.0038	0.9975	0.8176	0.0015	0.3886	0.7500	0.0013	0.3565	1.5735	0.0028	0.7480
3049	550	2.0285	0.0037	0.9106	0.7298	0.0013	0.3276	0.7147	0.0013	0.3208	1.4578	0.0027	0.6544
3050	660	2.4739	0.0037	1.0398	0.7779	0.0012	0.3270	0.7514	0.0011	0.3158	1.5138	0.0023	0.6363
3051	646	1.6624	0.0026	0.7620	0.7684	0.0012	0.3522	0.7657	0.0012	0.3510	1.5449	0.0024	0.7081

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	SEM.VES & CO.GL.			EPIDIDYMIS RIGHT			EPIDIDYMIS LEFT			EPIDIDYMIDES		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4026	642	2.0008	0.0031	0.9429	0.7907	0.0012	0.3726	0.7237	0.0011	0.3411	1.5060	0.0023	0.7097
4027	512	2.5156	0.0049	1.1526	0.6395	0.0012	0.2930	0.6410	0.0013	0.2937	1.3574	0.0027	0.6219
4028	597	2.2210	0.0037	1.0579	0.7286	0.0012	0.3470	0.6792	0.0011	0.3235	1.4035	0.0024	0.6685
4029	657	2.3201	0.0035	1.0374	0.8528	0.0013	0.3813	0.7951	0.0012	0.3555	1.6361	0.0025	0.7316
4030	591	2.1304	0.0036	0.9771	0.6953	0.0012	0.3189	0.6217	0.0011	0.2851	1.3098	0.0022	0.6007
4031	504	3.4055	0.0068	1.5419	0.7411	0.0015	0.3356	0.7113	0.0014	0.3221	1.4518	0.0029	0.6573
4032	783	2.4017	0.0031	1.1262	0.8013	0.0010	0.3758	0.7876	0.0010	0.3693	1.5583	0.0020	0.7307
4033	530	1.9443	0.0037	0.9293	0.8036	0.0015	0.3841	0.7698	0.0015	0.3679	1.5456	0.0029	0.7387
4034	553	1.6766	0.0030	0.8355	0.6797	0.0012	0.3387	0.7009	0.0013	0.3493	1.3578	0.0025	0.6766
4035	498	2.1931	0.0044	1.0968	0.7348	0.0015	0.3675	0.7814	0.0016	0.3908	1.4935	0.0030	0.7469
4036	596	2.0301	0.0034	0.9193	0.6817	0.0011	0.3087	0.7351	0.0012	0.3329	1.4138	0.0024	0.6402
4037	550	2.2986	0.0042	1.1291	0.7853	0.0014	0.3857	0.8463	0.0015	0.4157	1.6075	0.0029	0.7896
4038	520	2.0347	0.0039	0.9953	0.8352	0.0016	0.4086	0.7394	0.0014	0.3617	1.5515	0.0030	0.7589
4039	552	2.3981	0.0043	1.1571	0.8748	0.0016	0.4221	0.8031	0.0015	0.3875	1.6796	0.0030	0.8104
4040	552	2.1016	0.0038	0.9883	0.7496	0.0014	0.3525	0.6718	0.0012	0.3159	1.4084	0.0026	0.6623
4041	530	2.0509	0.0039	0.9748	0.7575	0.0014	0.3600	0.7721	0.0015	0.3670	1.5301	0.0029	0.7273
4042	595	1.6667	0.0028	0.7733	0.6949	0.0012	0.3224	0.7218	0.0012	0.3349	1.3973	0.0023	0.6483
4043	521	2.0053	0.0038	0.9531	0.7071	0.0014	0.3361	0.7201	0.0014	0.3423	1.4236	0.0027	0.6766
4044	541	2.2020	0.0041	1.0420	0.6748	0.0012	0.3193	0.6763	0.0013	0.3200	1.3432	0.0025	0.6356
4045	566	2.3618	0.0042	1.1085	0.8331	0.0015	0.3910	0.7462	0.0013	0.3502	1.5759	0.0028	0.7397
4046	578	1.8491	0.0032	0.8098	0.7788	0.0013	0.3411	0.8385	0.0015	0.3672	1.5720	0.0027	0.6884
4047	608	2.3012	0.0038	1.1094	0.7390	0.0012	0.3563	0.7661	0.0013	0.3693	1.5110	0.0025	0.7285
4048	655	2.5843	0.0039	1.0990	0.7845	0.0012	0.3336	0.7874	0.0012	0.3349	1.5650	0.0024	0.6655
4049	534	1.9375	0.0036	0.9245	0.6646	0.0012	0.3171	0.6540	0.0012	0.3121	1.3228	0.0025	0.6312
4050	463	1.9974	0.0043	0.9736	0.6817	0.0015	0.3323	0.6496	0.0014	0.3166	1.3338	0.0029	0.6502
4051	551	2.1462	0.0039	0.9879	0.7516	0.0014	0.3460	0.7424	0.0013	0.3417	1.4740	0.0027	0.6785

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1026	596	0.0497	0.0001	0.0225	2.2042	0.0037	1.0000	4.5914	0.0077	2.0830	21.6371	0.0363	9.8163
1027	595	0.0672	0.0001	0.0294	2.2881	0.0038	1.0000	4.3794	0.0074	1.9140	21.0723	0.0354	9.2095
1028	554	0.0622	0.0001	0.0275	2.2605	0.0041	1.0000	4.0830	0.0074	1.8062	19.5191	0.0352	8.6349
1029	522	0.0627	0.0001	0.0304	2.0606	0.0039	1.0000	3.5516	0.0068	1.7236	18.0607	0.0346	8.7648
1030	574	0.0607	0.0001	0.0271	2.2390	0.0039	1.0000	3.5564	0.0062	1.5884	19.1037	0.0333	8.5322
1031	547	0.0550	0.0001	0.0264	2.0844	0.0038	1.0000	3.9014	0.0071	1.8717	18.0676	0.0330	8.6680
1032	621	0.0563	0.0001	0.0239	2.3564	0.0038	1.0000	4.4814	0.0072	1.9018	23.1030	0.0372	9.8044
1033	561	0.0622	0.0001	0.0266	2.3383	0.0042	1.0000	4.2546	0.0076	1.8195	19.0090	0.0339	8.1294
1034	512	0.0540	0.0001	0.0264	2.0464	0.0040	1.0000	3.4090	0.0067	1.6659	16.0564	0.0314	7.8462
1035	535	0.0605	0.0001	0.0293	2.0642	0.0039	1.0000	3.3152	0.0062	1.6060	18.0211	0.0337	8.7303
1036	597	0.0585	0.0001	0.0262	2.2320	0.0037	1.0000	4.1916	0.0070	1.8780	19.2672	0.0323	8.6323
1037	522	0.0697	0.0001	0.0333	2.0959	0.0040	1.0000	3.5059	0.0067	1.6727	16.6953	0.0320	7.9657
1038	582	0.0655	0.0001	0.0315	2.0824	0.0036	1.0000	4.5715	0.0079	2.1953	20.3051	0.0349	9.7508
1039	510	0.0571	0.0001	0.0272	2.1010	0.0041	1.0000	3.7101	0.0073	1.7659	16.1684	0.0317	7.6956
1040	661	0.0552	0.0001	0.0246	2.2407	0.0034	1.0000	4.5382	0.0069	2.0253	21.8379	0.0330	9.7460
1041	683	0.0661	0.0001	0.0302	2.1881	0.0032	1.0000	4.9300	0.0072	2.2531	23.3785	0.0342	10.6844
1042	687	0.0650	0.0001	0.0286	2.2709	0.0033	1.0000	5.4274	0.0079	2.3900	23.0370	0.0335	10.1444
1043	445	0.0616	0.0001	0.0284	2.1687	0.0049	1.0000	3.4595	0.0078	1.5952	14.5009	0.0326	6.6864
1044	635	0.0788	0.0001	0.0384	2.0529	0.0032	1.0000	4.0483	0.0064	1.9720	22.4535	0.0354	10.9375
1045	555	0.0651	0.0001	0.0324	2.0099	0.0036	1.0000	3.7685	0.0068	1.8750	19.0286	0.0343	9.4674
1046	594	0.0672	0.0001	0.0298	2.2533	0.0038	1.0000	4.3610	0.0073	1.9354	20.1033	0.0338	8.9217
1047	530	0.0688	0.0001	0.0329	2.0935	0.0040	1.0000	3.8376	0.0072	1.8331	17.8346	0.0337	8.5190
1048	625	0.0803	0.0001	0.0355	2.2600	0.0036	1.0000	4.4123	0.0071	1.9523	18.8077	0.0301	8.3220
1049	605	0.0520	0.0001	0.0240	2.1668	0.0036	1.0000	4.2264	0.0070	1.9505	19.8124	0.0328	9.1436
1050	597	0.0608	0.0001	0.0258	2.3558	0.0039	1.0000	4.6326	0.0078	1.9665	19.6467	0.0329	8.3397
1051	505	0.0800	0.0002	0.0397	2.0152	0.0040	1.0000	3.7748	0.0075	1.8732	16.2320	0.0321	8.0548

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2026	505	0.0506	0.0001	0.0232	2.1777	0.0043	1.0000	3.7375	0.0074	1.7163	18.1728	0.0360	8.3450
2027	511	0.0551	0.0001	0.0241	2.2892	0.0045	1.0000	3.4106	0.0067	1.4899	16.4422	0.0322	7.1825
2028	567	0.0509	0.0001	0.0235	2.1690	0.0038	1.0000	4.1151	0.0073	1.8972	19.3291	0.0341	8.9115
2029	588	0.0491	0.0001	0.0231	2.1245	0.0036	1.0000	4.1381	0.0070	1.9478	19.5875	0.0333	9.2198
2030	625	0.0649	0.0001	0.0286	2.2677	0.0036	1.0000	4.7805	0.0076	2.1081	22.7354	0.0364	10.0258
2031	516	0.0753	0.0001	0.0355	2.1205	0.0041	1.0000	4.0010	0.0078	1.8868	18.1236	0.0351	8.5469
2032	492	0.0524	0.0001	0.0249	2.1011	0.0043	1.0000	3.3367	0.0068	1.5881	16.3219	0.0332	7.7683
2033	639	0.0654	0.0001	0.0296	2.2124	0.0035	1.0000	4.2193	0.0066	1.9071	20.8139	0.0326	9.4078
2034	608	0.0523	0.0001	0.0244	2.1419	0.0035	1.0000	4.2481	0.0070	1.9833	19.3562	0.0318	9.0369
2035	504	0.0518	0.0001	0.0256	2.0265	0.0040	1.0000	3.4495	0.0068	1.7022	15.4040	0.0306	7.6013
2036	491	0.0674	0.0001	0.0294	2.2892	0.0047	1.0000	3.9796	0.0081	1.7384	17.3032	0.0352	7.5586
2037	572	0.0690	0.0001	0.0308	2.2390	0.0039	1.0000	3.7521	0.0066	1.6758	18.1371	0.0317	8.1005
2038	540	0.0548	0.0001	0.0254	2.1588	0.0040	1.0000	4.5410	0.0084	2.1035	19.5089	0.0361	9.0369
2039	582	0.0721	0.0001	0.0329	2.1902	0.0038	1.0000	4.2684	0.0073	1.9489	19.8577	0.0341	9.0666
2040	581	0.0670	0.0001	0.0319	2.0994	0.0036	1.0000	4.3133	0.0074	2.0545	19.6690	0.0339	9.3689
2041	614	0.0611	0.0001	0.0284	2.1539	0.0035	1.0000	4.0158	0.0065	1.8644	20.4904	0.0334	9.5132
2042	551	0.0860	0.0002	0.0415	2.0726	0.0038	1.0000	3.5861	0.0065	1.7302	18.8070	0.0342	9.0741
2043	640	0.0856	0.0001	0.0388	2.2056	0.0034	1.0000	4.1182	0.0064	1.8672	23.0512	0.0360	10.4512
2044	674	0.0567	0.0001	0.0266	2.1349	0.0032	1.0000	4.3578	0.0065	2.0412	23.4208	0.0348	10.9704
2045	664	0.0773	0.0001	0.0363	2.1315	0.0032	1.0000	4.4919	0.0068	2.1074	22.8447	0.0344	10.7177
2046	563	0.0678	0.0001	0.0322	2.1039	0.0037	1.0000	4.1426	0.0074	1.9690	18.7236	0.0333	8.8995
2047	598	0.0770	0.0001	0.0364	2.1164	0.0035	1.0000	4.0237	0.0067	1.9012	20.0965	0.0336	9.4956
2048	495	0.0676	0.0001	0.0316	2.1367	0.0043	1.0000	3.8509	0.0078	1.8023	16.9682	0.0343	7.9413
2049	697	0.0871	0.0001	0.0387	2.2483	0.0032	1.0000	4.7940	0.0069	2.1323	24.4855	0.0352	10.8907
2050	606	0.0576	0.0001	0.0262	2.1959	0.0036	1.0000	4.2303	0.0070	1.9265	19.9556	0.0329	9.0877
2051	545	0.0575	0.0001	0.0264	2.1775	0.0040	1.0000	3.7397	0.0069	1.7174	18.7255	0.0343	8.5995

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT



## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3026	575	0.0570	0.0001	0.0271	2.1061	0.0037	1.0000	4.6270	0.0080	2.1970	20.5960	0.0358	9.7792
3027	485	0.0921	0.0002	0.0458	2.0101	0.0041	1.0000	3.9876	0.0082	1.9838	17.0162	0.0351	8.4654
3028	625	0.0625	0.0001	0.0278	2.2461	0.0036	1.0000	4.6372	0.0074	2.0646	20.0811	0.0321	8.9404
3029	611	0.0625	0.0001	0.0289	2.1637	0.0035	1.0000	4.6139	0.0076	2.1324	21.0988	0.0345	9.7513
3030	627	0.0767	0.0001	0.0352	2.1804	0.0035	1.0000	5.3011	0.0085	2.4313	22.4215	0.0357	10.2832
3031	524	0.0580	0.0001	0.0279	2.0770	0.0040	1.0000	3.8281	0.0073	1.8431	17.1023	0.0326	8.2341
3032	510	0.0647	0.0001	0.0301	2.1478	0.0042	1.0000	3.8597	0.0076	1.7970	15.5536	0.0305	7.2416
3033	587	0.0696	0.0001	0.0329	2.1164	0.0036	1.0000	4.4308	0.0075	2.0936	21.1561	0.0360	9.9963
3034	594	0.0581	0.0001	0.0256	2.2717	0.0038	1.0000	4.4644	0.0075	1.9652	19.8822	0.0335	8.7521
3035	624	0.0577	0.0001	0.0250	2.3123	0.0037	1.0000	4.9814	0.0080	2.1543	23.3690	0.0374	10.1064
3036	505	0.0523	0.0001	0.0247	2.1135	0.0042	1.0000	4.0199	0.0080	1.9020	16.8945	0.0334	7.9936
3037	577	0.0595	0.0001	0.0273	2.1817	0.0038	1.0000	4.5452	0.0079	2.0833	21.1925	0.0367	9.7138
3038	569	0.0795	0.0001	0.0362	2.1962	0.0039	1.0000	5.0869	0.0089	2.3162	20.5248	0.0361	9.3456
3039	568	0.0642	0.0001	0.0292	2.1968	0.0039	1.0000	4.8341	0.0085	2.2005	22.2637	0.0392	10.1346
3040	660	0.0684	0.0001	0.0319	2.1435	0.0033	1.0000	5.2329	0.0079	2.4413	23.7361	0.0360	11.0735
3041	629	0.0748	0.0001	0.0348	2.1504	0.0034	1.0000	4.9062	0.0078	2.2815	23.3730	0.0372	10.8691
3042	553	0.0590	0.0001	0.0278	2.1226	0.0038	1.0000	4.8675	0.0088	2.2932	17.7070	0.0320	8.3421
3045	476	0.0610	0.0001	0.0275	2.2180	0.0047	1.0000	3.6753	0.0077	1.6570	15.9964	0.0336	7.2121
3046	536	0.0840	0.0002	0.0389	2.1610	0.0040	1.0000	4.4532	0.0083	2.0607	18.1863	0.0339	8.4157
3047	559	0.0714	0.0001	0.0343	2.0816	0.0037	1.0000	5.0694	0.0091	2.4353	23.6349	0.0423	11.3542
3048	559	0.0593	0.0001	0.0282	2.1037	0.0038	1.0000	4.3111	0.0077	2.0493	19.7936	0.0354	9.4089
3049	550	0.0679	0.0001	0.0305	2.2276	0.0041	1.0000	4.5017	0.0082	2.0209	19.8437	0.0361	8.9081
3050	660	0.1011	0.0002	0.0425	2.3791	0.0036	1.0000	5.3506	0.0081	2.2490	24.8219	0.0376	10.4333
3051	646	0.0716	0.0001	0.0328	2.1816	0.0034	1.0000	4.8972	0.0076	2.2448	21.3150	0.0330	9.7704

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4026	642	0.0481	0.0001	0.0227	2.1219	0.0033	1.0000	4.9232	0.0077	2.3202	25.1112	0.0391	11.8343
4027	512	0.0529	0.0001	0.0242	2.1825	0.0043	1.0000	4.5250	0.0088	2.0733	18.7483	0.0366	8.5903
4028	597	0.0626	0.0001	0.0298	2.0995	0.0035	1.0000	4.5135	0.0076	2.1498	22.0398	0.0369	10.4976
4029	657	0.0602	0.0001	0.0269	2.2364	0.0034	1.0000	6.1342	0.0093	2.7429	23.0784	0.0351	10.3194
4030	591	0.0628	0.0001	0.0288	2.1803	0.0037	1.0000	4.8956	0.0083	2.2454	21.8050	0.0369	10.0009
4031	504	0.0593	0.0001	0.0268	2.2086	0.0044	1.0000	5.0211	0.0100	2.2734	20.4573	0.0406	9.2626
4032	783	0.0695	0.0001	0.0326	2.1325	0.0027	1.0000	5.8810	0.0075	2.7578	29.3185	0.0374	13.7484
4033	530	0.0608	0.0001	0.0291	2.0923	0.0039	1.0000	5.3645	0.0101	2.5639	20.4241	0.0385	9.7616
4034	553	0.0443	0.0001	0.0221	2.0068	0.0036	1.0000	4.0653	0.0074	2.0258	20.1266	0.0364	10.0292
4035	498	0.0685	0.0001	0.0343	1.9996	0.0040	1.0000	4.8185	0.0097	2.4097	19.0169	0.0382	9.5104
4036	596	0.0574	0.0001	0.0260	2.2083	0.0037	1.0000	4.1563	0.0070	1.8821	21.2134	0.0356	9.6062
4037	550	0.0463	0.0001	0.0227	2.0358	0.0037	1.0000	5.0785	0.0092	2.4946	20.5777	0.0374	10.1079
4038	520	0.0612	0.0001	0.0299	2.0443	0.0039	1.0000	4.5094	0.0087	2.2058	18.7277	0.0360	9.1609
4039	552	0.0670	0.0001	0.0323	2.0725	0.0038	1.0000	4.5545	0.0083	2.1976	19.8811	0.0360	9.5928
4040	552	0.0743	0.0001	0.0349	2.1265	0.0039	1.0000	4.4954	0.0082	2.1140	23.6899	0.0430	11.1403
4041	530	0.0498	0.0001	0.0237	2.1039	0.0040	1.0000	4.9329	0.0093	2.3446	18.7611	0.0354	8.9173
4042	595	0.0571	0.0001	0.0265	2.1554	0.0036	1.0000	4.5598	0.0077	2.1155	23.7247	0.0399	11.0071
4043	521	0.0486	0.0001	0.0231	2.1039	0.0040	1.0000	4.1860	0.0080	1.9896	18.8542	0.0362	8.9615
4044	541	0.0675	0.0001	0.0319	2.1132	0.0039	1.0000	4.8299	0.0089	2.2856	21.7772	0.0403	10.3053
4045	566	0.0605	0.0001	0.0284	2.1306	0.0038	1.0000	4.6227	0.0082	2.1697	20.3016	0.0359	9.5286
4046	578	0.0590	0.0001	0.0258	2.2835	0.0040	1.0000	5.1649	0.0089	2.2618	20.9115	0.0362	9.1577
4047	608	0.0808	0.0001	0.0390	2.0742	0.0034	1.0000	4.9660	0.0082	2.3942	22.3447	0.0368	10.7727
4048	655	0.0913	0.0001	0.0388	2.3515	0.0036	1.0000	4.3992	0.0067	1.8708	23.8447	0.0364	10.1402
4049	534	0.0568	0.0001	0.0271	2.0957	0.0039	1.0000	4.3855	0.0082	2.0926	20.3720	0.0381	9.7209
4050	463	0.0577	0.0001	0.0281	2.0515	0.0044	1.0000	3.6937	0.0080	1.8005	17.0722	0.0368	8.3218
4051	551	0.0541	0.0001	0.0249	2.1725	0.0039	1.0000	4.1878	0.0076	1.9276	19.6771	0.0357	9.0574

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1026	596	1.6649	0.0028	0.7553	0.0125	0.0000	0.0057	0.7026	0.0012	0.3188
1027	595	1.6803	0.0028	0.7344	0.0128	0.0000	0.0056	0.7819	0.0013	0.3417
1028	554	1.6226	0.0029	0.7178	0.0110	0.0000	0.0049	0.8475	0.0015	0.3749
1029	522	1.7016	0.0033	0.8258	0.0107	0.0000	0.0052	0.7528	0.0014	0.3653
1030	574	1.8358	0.0032	0.8199	0.0121	0.0000	0.0054	0.7566	0.0013	0.3379
1031	547	1.6697	0.0031	0.8010	0.0109	0.0000	0.0052	0.7167	0.0013	0.3438
1032	621	2.4779	0.0040	1.0516	0.0151	0.0000	0.0064	0.8986	0.0014	0.3813
1033	561	1.7288	0.0031	0.7393	0.0111	0.0000	0.0047	0.7179	0.0013	0.3070
1034	512	1.5607	0.0031	0.7627	0.0117	0.0000	0.0057	0.7868	0.0015	0.3845
1035	535	1.5183	0.0028	0.7355	0.0090	0.0000	0.0044	0.7235	0.0014	0.3505
1036	597	2.0919	0.0035	0.9372	0.0104	0.0000	0.0047	0.8550	0.0014	0.3831
1037	522	1.5740	0.0030	0.7510	0.0108	0.0000	0.0052	0.7675	0.0015	0.3662
1038	582	2.3818	0.0041	1.1438	0.0131	0.0000	0.0063	1.0208	0.0018	0.4902
1039	510	1.5953	0.0031	0.7593	0.0103	0.0000	0.0049	0.7961	0.0016	0.3789
1040	661	2.0305	0.0031	0.9062	0.0131	0.0000	0.0058	0.9771	0.0015	0.4361
1041	683	2.2176	0.0032	1.0135	0.0131	0.0000	0.0060	0.9468	0.0014	0.4327
1042	687	1.9694	0.0029	0.8672	0.0122	0.0000	0.0054	0.9194	0.0013	0.4049
1043	445	1.7349	0.0039	0.8000	0.0100	0.0000	0.0046	0.6989	0.0016	0.3223
1044	635	1.7016	0.0027	0.8289	0.0112	0.0000	0.0055	1.0277	0.0016	0.5006
1045	555	1.6095	0.0029	0.8008	0.0139	0.0000	0.0069	0.6809	0.0012	0.3388
1046	594	1.8767	0.0032	0.8329	0.0127	0.0000	0.0056	0.5907	0.0010	0.2621
1047	530	1.7311	0.0033	0.8269	0.0123	0.0000	0.0059	0.7426	0.0014	0.3547
1048	625	1.8679	0.0030	0.8265	0.0145	0.0000	0.0064	1.2141	0.0019	0.5372
1049	605	1.9854	0.0033	0.9163	0.0109	0.0000	0.0050	0.7879	0.0013	0.3636
1050	597	2.2006	0.0037	0.9341	0.0137	0.0000	0.0058	0.6994	0.0012	0.2969
1051	505	1.9452	0.0038	0.9653	0.0117	0.0000	0.0058	0.7669	0.0015	0.3806

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2026	505	1.6806	0.0033	0.7717	0.0066	0.0000	0.0030	0.7052	0.0014	0.3238
2027	511	1.4735	0.0029	0.6437	0.0103	0.0000	0.0045	0.6373	0.0012	0.2784
2028	567	1.6954	0.0030	0.7817	0.0055	0.0000	0.0025	0.8434	0.0015	0.3888
2029	588	1.9105	0.0033	0.8993	0.0130	0.0000	0.0061	0.8114	0.0014	0.3819
2030	625	2.0506	0.0033	0.9043	0.0116	0.0000	0.0051	0.9337	0.0015	0.4117
2031	516	1.5817	0.0031	0.7459	0.0109	0.0000	0.0051	0.7684	0.0015	0.3624
2032	492	1.5945	0.0032	0.7589	0.0087	0.0000	0.0041	0.7208	0.0015	0.3431
2033	639	1.9385	0.0030	0.8762	0.0115	0.0000	0.0052	0.7357	0.0012	0.3325
2034	608	1.7966	0.0030	0.8388	0.0125	0.0000	0.0058	0.9700	0.0016	0.4529
2035	504	1.5852	0.0031	0.7822	0.0127	0.0000	0.0063	0.6600	0.0013	0.3257
2036	491	1.9539	0.0040	0.8535	0.0118	0.0000	0.0052	0.7581	0.0015	0.3312
2037	572	1.8430	0.0032	0.8231	0.0117	0.0000	0.0052	0.6169	0.0011	0.2755
2038	540	1.5982	0.0030	0.7403	0.0101	0.0000	0.0047	0.9692	0.0018	0.4490
2039	582	1.8116	0.0031	0.8271	0.0103	0.0000	0.0047	0.6941	0.0012	0.3169
2040	581	1.8326	0.0032	0.8729	0.0123	0.0000	0.0059	0.7065	0.0012	0.3365
2041	614	1.8902	0.0031	0.8776	0.0109	0.0000	0.0051	0.7968	0.0013	0.3699
2042	551	1.7207	0.0031	0.8302	0.0108	0.0000	0.0052	0.6609	0.0012	0.3189
2043	640	2.0147	0.0031	0.9134	0.0112	0.0000	0.0051	0.8252	0.0013	0.3741
2044	674	1.8177	0.0027	0.8514	0.0121	0.0000	0.0057	0.6028	0.0009	0.2824
2045	664	1.8537	0.0028	0.8697	0.0138	0.0000	0.0065	0.7125	0.0011	0.3343
2046	563	1.9157	0.0034	0.9105	0.0121	0.0000	0.0058	0.8378	0.0015	0.3982
2047	598	1.7662	0.0030	0.8345	0.0112	0.0000	0.0053	0.8314	0.0014	0.3928
2048	495	1.7010	0.0034	0.7961	0.0131	0.0000	0.0061	0.9375	0.0019	0.4388
2049	697	2.3427	0.0034	1.0420	0.0152	0.0000	0.0068	0.7549	0.0011	0.3358
2050	606	1.7826	0.0029	0.8118	0.0139	0.0000	0.0063	0.7247	0.0012	0.3300
2051	545	1.9435	0.0036	0.8925	0.0120	0.0000	0.0055	0.7855	0.0014	0.3607

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3026	575	1.6761	0.0029	0.7958	0.0105	0.0000	0.0050	0.7205	0.0013	0.3421
3027	485	1.5179	0.0031	0.7551	0.0107	0.0000	0.0053	0.7227	0.0015	0.3595
3028	625	2.1264	0.0034	0.9467	0.0121	0.0000	0.0054	0.6807	0.0011	0.3031
3029	611	1.7633	0.0029	0.8149	0.0119	0.0000	0.0055	0.7797	0.0013	0.3604
3030	627	2.0062	0.0032	0.9201	0.0121	0.0000	0.0055	1.0044	0.0016	0.4606
3031	524	1.6220	0.0031	0.7809	0.0122	0.0000	0.0059	0.7442	0.0014	0.3583
3032	510	1.6470	0.0032	0.7668	0.0134	0.0000	0.0062	0.8738	0.0017	0.4068
3033	587	2.2473	0.0038	1.0619	0.0115	0.0000	0.0054	0.8757	0.0015	0.4138
3034	594	1.7066	0.0029	0.7512	0.0127	0.0000	0.0056	0.7063	0.0012	0.3109
3035	624	1.9884	0.0032	0.8599	0.0106	0.0000	0.0046	0.7755	0.0012	0.3354
3036	505	1.6280	0.0032	0.7703	0.0094	0.0000	0.0044	0.7708	0.0015	0.3647
3037	577	1.8304	0.0032	0.8390	0.0110	0.0000	0.0050	0.8814	0.0015	0.4040
3038	569	2.2100	0.0039	1.0063	0.0123	0.0000	0.0056	0.8817	0.0015	0.4015
3039	568	1.7922	0.0032	0.8158	0.0123	0.0000	0.0056	0.9555	0.0017	0.4350
3040	660	1.8278	0.0028	0.8527	0.0115	0.0000	0.0054	1.0728	0.0016	0.5005
3041	629	1.7134	0.0027	0.7968	0.0139	0.0000	0.0065	1.0363	0.0016	0.4819
3042	553	1.8185	0.0033	0.8567	0.0107	0.0000	0.0050	0.7856	0.0014	0.3701
3045	476	1.7899	0.0038	0.8070	0.0105	0.0000	0.0047	0.5933	0.0012	0.2675
3046	536	1.8109	0.0034	0.8380	0.0116	0.0000	0.0054	0.8835	0.0016	0.4088
3047	559	1.8809	0.0034	0.9036	0.0113	0.0000	0.0054	0.8246	0.0015	0.3961
3048	559	1.7809	0.0032	0.8466	0.0124	0.0000	0.0059	0.9210	0.0016	0.4378
3049	550	1.9036	0.0035	0.8546	0.0130	0.0000	0.0058	0.8421	0.0015	0.3780
3050	660	2.2453	0.0034	0.9438	0.0145	0.0000	0.0061	1.0414	0.0016	0.4377
3051	646	2.2972	0.0036	1.0530	0.0149	0.0000	0.0068	0.7781	0.0012	0.3567

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4026	642	2.0399	0.0032	0.9614	0.0118	0.0000	0.0056	0.8034	0.0013	0.3786
4027	512	1.7243	0.0034	0.7901	0.0123	0.0000	0.0056	0.6395	0.0012	0.2930
4028	597	1.6918	0.0028	0.8058	0.0107	0.0000	0.0051	0.7258	0.0012	0.3457
4029	657	1.9865	0.0030	0.8883	0.0097	0.0000	0.0043	0.7905	0.0012	0.3535
4030	591	1.5825	0.0027	0.7258	0.0140	0.0000	0.0064	0.8130	0.0014	0.3729
4031	504	2.0731	0.0041	0.9386	0.0160	0.0000	0.0072	0.8205	0.0016	0.3715
4032	783	2.0094	0.0026	0.9423	0.0108	0.0000	0.0051	1.1075	0.0014	0.5193
4033	530	1.7040	0.0032	0.8144	0.0119	0.0000	0.0057	0.7246	0.0014	0.3463
4034	553	1.8835	0.0034	0.9386	0.0109	0.0000	0.0054	0.7353	0.0013	0.3664
4035	498	1.7434	0.0035	0.8719	0.0119	0.0000	0.0060	0.7869	0.0016	0.3935
4036	596	1.8743	0.0031	0.8488	0.0127	0.0000	0.0058	0.8058	0.0014	0.3649
4037	550	1.8141	0.0033	0.8911	0.0070	0.0000	0.0034	0.8321	0.0015	0.4087
4038	520	1.7147	0.0033	0.8388	0.0124	0.0000	0.0061	0.8396	0.0016	0.4107
4039	552	1.8113	0.0033	0.8740	0.0105	0.0000	0.0051	0.6913	0.0013	0.3336
4040	552	1.9324	0.0035	0.9087	0.0126	0.0000	0.0059	0.7671	0.0014	0.3607
4041	530	1.6449	0.0031	0.7818	0.0118	0.0000	0.0056	0.8959	0.0017	0.4258
4042	595	1.7210	0.0029	0.7985	0.0090	0.0000	0.0042	0.7000	0.0012	0.3248
4043	521	1.6643	0.0032	0.7911	0.0083	0.0000	0.0039	0.6125	0.0012	0.2911
4044	541	1.9595	0.0036	0.9273	0.0094	0.0000	0.0044	0.8839	0.0016	0.4183
4045	566	2.0707	0.0037	0.9719	0.0136	0.0000	0.0064	0.8277	0.0015	0.3885
4046	578	1.7913	0.0031	0.7845	0.0123	0.0000	0.0054	0.7890	0.0014	0.3455
4047	608	1.8242	0.0030	0.8795	0.0148	0.0000	0.0071	0.6940	0.0011	0.3346
4048	655	2.0407	0.0031	0.8678	0.0145	0.0000	0.0062	0.9682	0.0015	0.4117
4049	534	1.8180	0.0034	0.8675	0.0133	0.0000	0.0063	0.7544	0.0014	0.3600
4050	463	1.4950	0.0032	0.7287	0.0110	0.0000	0.0054	0.6562	0.0014	0.3199
4051	551	1.7979	0.0033	0.8276	0.0131	0.0000	0.0060	0.8929	0.0016	0.4110

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1526	268	0.0690	0.0003	0.0357	1.9342	0.0072	1.0000	2.2961	0.0086	1.1871	11.7388	0.0438	6.0691
1527	306	0.0656	0.0002	0.0353	1.8588	0.0061	1.0000	2.7035	0.0088	1.4544	14.5085	0.0475	7.8053
1528	269	0.0709	0.0003	0.0360	1.9697	0.0073	1.0000	2.2505	0.0084	1.1426	11.3636	0.0423	5.7692
1529	309	0.0720	0.0002	0.0358	2.0096	0.0065	1.0000	2.3786	0.0077	1.1836	12.8991	0.0417	6.4187
1530	327	0.0685	0.0002	0.0356	1.9232	0.0059	1.0000	2.5788	0.0079	1.3409	13.7154	0.0419	7.1316
1531	295	0.0675	0.0002	0.0359	1.8810	0.0064	1.0000	2.2593	0.0076	1.2011	12.7914	0.0433	6.8003
1532	316	0.0675	0.0002	0.0358	1.8852	0.0060	1.0000	2.8307	0.0090	1.5015	14.9345	0.0473	7.9220
1533	329	0.0709	0.0002	0.0350	2.0271	0.0062	1.0000	2.7475	0.0083	1.3554	14.0334	0.0426	6.9229
1535	311	0.0693	0.0002	0.0358	1.9345	0.0062	1.0000	2.5821	0.0083	1.3348	14.2344	0.0458	7.3582
1536	331	0.0738	0.0002	0.0366	2.0152	0.0061	1.0000	2.6592	0.0080	1.3196	13.8851	0.0419	6.8902
1537	342	0.0746	0.0002	0.0368	2.0276	0.0059	1.0000	2.6700	0.0078	1.3168	16.7770	0.0491	8.2743
1539	339	0.0887	0.0003	0.0446	1.9881	0.0059	1.0000	2.7608	0.0081	1.3887	16.8518	0.0497	8.4763
1541	335	0.0839	0.0003	0.0412	2.0364	0.0061	1.0000	2.7186	0.0081	1.3350	16.4748	0.0493	8.0902
1542	300	0.0802	0.0003	0.0433	1.8543	0.0062	1.0000	2.7735	0.0092	1.4957	14.5041	0.0483	7.8219
1543	311	0.0947	0.0003	0.0536	1.7676	0.0057	1.0000	2.5818	0.0083	1.4606	13.3808	0.0431	7.5700
1544	344	0.0773	0.0002	0.0401	1.9268	0.0056	1.0000	2.7489	0.0080	1.4267	16.2738	0.0473	8.4460
1545	284	0.0673	0.0002	0.0344	1.9579	0.0069	1.0000	2.4160	0.0085	1.2340	13.3421	0.0469	6.8145
1546	304	0.0678	0.0002	0.0340	1.9927	0.0066	1.0000	2.6363	0.0087	1.3230	14.1209	0.0464	7.0863
1547	291	0.0669	0.0002	0.0346	1.9363	0.0066	1.0000	2.3435	0.0080	1.2103	12.3125	0.0423	6.3588
1550	268	0.0736	0.0003	0.0364	2.0198	0.0075	1.0000	2.4009	0.0090	1.1887	11.2886	0.0422	5.5890
1551	292	0.0706	0.0002	0.0394	1.7897	0.0061	1.0000	2.5342	0.0087	1.4160	12.8911	0.0441	7.2029

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2526	303	0.0983	0.0003	0.0521	1.8875	0.0062	1.0000	2.4309	0.0080	1.2879	12.5073	0.0412	6.6264
2527	291	0.0848	0.0003	0.0448	1.8927	0.0065	1.0000	2.4557	0.0085	1.2975	12.5833	0.0433	6.6483
2528	330	0.0909	0.0003	0.0460	1.9754	0.0060	1.0000	2.9181	0.0088	1.4772	15.1089	0.0458	7.6485
2529	292	0.0681	0.0002	0.0360	1.8901	0.0065	1.0000	2.5470	0.0087	1.3475	12.4484	0.0427	6.5861
2530	291	0.0795	0.0003	0.0417	1.9076	0.0066	1.0000	2.5260	0.0087	1.3242	12.9113	0.0444	6.7683
2531	321	0.0723	0.0002	0.0378	1.9146	0.0060	1.0000	2.6537	0.0083	1.3860	14.8639	0.0462	7.7634
2532	309	0.0616	0.0002	0.0345	1.7866	0.0058	1.0000	2.6984	0.0087	1.5104	13.5693	0.0439	7.5950
2533	366	0.0724	0.0002	0.0353	2.0527	0.0056	1.0000	2.9310	0.0080	1.4279	16.4653	0.0450	8.0213
2534	326	0.0772	0.0002	0.0411	1.8774	0.0058	1.0000	2.6450	0.0081	1.4089	14.1727	0.0435	7.5491
2535	299	0.0619	0.0002	0.0364	1.7014	0.0057	1.0000	2.2113	0.0074	1.2997	12.8387	0.0430	7.5460
2537	348	0.0652	0.0002	0.0326	2.0006	0.0057	1.0000	2.7179	0.0078	1.3585	13.7327	0.0394	6.8643
2538	343	0.0783	0.0002	0.0381	2.0552	0.0060	1.0000	2.3884	0.0070	1.1621	12.9122	0.0376	6.2827
2539	315	0.0733	0.0002	0.0359	2.0419	0.0065	1.0000	2.5320	0.0080	1.2400	15.2936	0.0486	7.4899
2540	278	0.0697	0.0003	0.0368	1.8950	0.0068	1.0000	2.5245	0.0091	1.3322	12.3091	0.0442	6.4956
2541	310	0.0668	0.0002	0.0347	1.9250	0.0062	1.0000	2.5505	0.0082	1.3249	13.8606	0.0447	7.2003
2542	298	0.0829	0.0003	0.0435	1.9049	0.0064	1.0000	2.6618	0.0089	1.3973	12.8159	0.0430	6.7279
2543	PNMD 322	0.0700	0.0002	0.0370	1.8915	0.0059	1.0000	2.6686	0.0083	1.4108	16.4246	0.0510	8.6834
2545	331	0.0711	0.0002	0.0367	1.9371	0.0059	1.0000	2.6877	0.0081	1.3875	14.0572	0.0425	7.2568
2546	314	0.1003	0.0003	0.0526	1.9068	0.0061	1.0000	2.6617	0.0085	1.3959	16.1563	0.0515	8.4730
2547	265	0.0784	0.0003	0.0388	2.0203	0.0076	1.0000	2.2106	0.0083	1.0942	9.0096	0.0339	4.4595
2548	308	0.0631	0.0002	0.0316	1.9982	0.0065	1.0000	2.5685	0.0083	1.2854	13.9637	0.0453	6.9881
2550	293	0.0604	0.0002	0.0341	1.7726	0.0060	1.0000	2.6035	0.0089	1.4687	13.9971	0.0477	7.8964
2551	327	0.0802	0.0002	0.0408	1.9680	0.0060	1.0000	2.8744	0.0088	1.4606	16.5279	0.0505	8.3983

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE



## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3527	303	0.1072	0.0004	0.0549	1.9514	0.0064	1.0000	2.4618	0.0081	1.2616	14.2889	0.0471	7.3224
3528	355	0.0871	0.0002	0.0434	2.0072	0.0057	1.0000	2.7306	0.0077	1.3604	14.6180	0.0412	7.2828
3529	287	0.0854	0.0003	0.0456	1.8720	0.0065	1.0000	2.5469	0.0089	1.3605	12.6058	0.0439	6.7339
3531	310	0.0863	0.0003	0.0458	1.8842	0.0061	1.0000	2.8295	0.0091	1.5017	15.5423	0.0501	8.2488
3532	297	0.0662	0.0002	0.0348	1.9042	0.0064	1.0000	2.4502	0.0083	1.2867	12.5695	0.0423	6.6009
3533	305	0.0806	0.0003	0.0409	1.9717	0.0065	1.0000	2.4181	0.0079	1.2264	13.7093	0.0449	6.9530
3535	275	0.0682	0.0002	0.0373	1.8270	0.0066	1.0000	2.5479	0.0093	1.3946	11.5774	0.0421	6.3368
3536	304	0.0698	0.0002	0.0345	2.0254	0.0067	1.0000	2.7019	0.0089	1.3340	15.0901	0.0496	7.4504
3537	288	0.0594	0.0002	0.0297	1.9994	0.0069	1.0000	2.6672	0.0093	1.3340	12.6084	0.0438	6.3061
3538	326	0.0700	0.0002	0.0363	1.9281	0.0059	1.0000	2.6460	0.0081	1.3723	16.3096	0.0501	8.4589
3539	343	0.0650	0.0002	0.0328	1.9800	0.0058	1.0000	2.7390	0.0080	1.3833	17.4218	0.0508	8.7989
3540	320	0.0540	0.0002	0.0276	1.9589	0.0061	1.0000	2.8679	0.0090	1.4640	16.6089	0.0519	8.4787
3541	339	0.0584	0.0002	0.0301	1.9415	0.0057	1.0000	2.5620	0.0076	1.3196	16.6451	0.0491	8.5733
3542	316	0.0736	0.0002	0.0380	1.9367	0.0061	1.0000	2.8326	0.0090	1.4626	13.4752	0.0426	6.9578
3543	291	0.0637	0.0002	0.0342	1.8631	0.0064	1.0000	2.3508	0.0081	1.2618	13.2622	0.0456	7.1184
3544	287	0.0615	0.0002	0.0351	1.7543	0.0061	1.0000	2.4389	0.0085	1.3902	12.9773	0.0453	7.3974
3545	336	0.0649	0.0002	0.0338	1.9219	0.0057	1.0000	3.0667	0.0091	1.5957	15.1961	0.0452	7.9068
3546	335	0.0590	0.0002	0.0306	1.9307	0.0058	1.0000	2.6194	0.0078	1.3567	14.3649	0.0429	7.4403
3547	275	0.0648	0.0002	0.0342	1.8942	0.0069	1.0000	2.2186	0.0081	1.1713	12.2604	0.0446	6.4726
3548	319	0.0736	0.0002	0.0382	1.9275	0.0060	1.0000	2.8445	0.0089	1.4757	14.4653	0.0454	7.5047
3549	289	0.0833	0.0003	0.0421	1.9794	0.0069	1.0000	2.6258	0.0091	1.3266	13.5990	0.0471	6.8703
3550	309	0.0944	0.0003	0.0481	1.9607	0.0064	1.0000	2.7409	0.0089	1.3979	15.0784	0.0489	7.6903
3551	318	0.0771	0.0002	0.0407	1.8955	0.0060	1.0000	2.7704	0.0087	1.4616	15.7650	0.0497	8.3171

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	ADRENALS			BRAIN			KIDNEYS			LIVER		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4526	288	0.0824	0.0003	0.0415	1.9867	0.0069	1.0000	2.5238	0.0088	1.2703	13.0964	0.0456	6.5920
4527	306	0.0647	0.0002	0.0321	2.0171	0.0066	1.0000	2.4326	0.0080	1.2060	14.5006	0.0474	7.1888
4528	308	0.0809	0.0003	0.0398	2.0308	0.0066	1.0000	2.9558	0.0096	1.4555	12.7873	0.0416	6.2967
4529	353	0.1056	0.0003	0.0527	2.0034	0.0057	1.0000	3.1637	0.0090	1.5792	16.2706	0.0461	8.1215
4530 PNMD	307	0.0839	0.0003	0.0462	1.8168	0.0059	1.0000	2.8369	0.0092	1.5615	13.3414	0.0434	7.3434
4531	317	0.0824	0.0003	0.0419	1.9667	0.0062	1.0000	2.8388	0.0089	1.4434	12.9324	0.0408	6.5757
4532	300	0.0718	0.0002	0.0383	1.8751	0.0063	1.0000	2.4919	0.0083	1.3289	13.2965	0.0443	7.0911
4533	303	0.0704	0.0002	0.0367	1.9170	0.0063	1.0000	2.5105	0.0083	1.3096	14.5237	0.0480	7.5763
4534	300	0.0629	0.0002	0.0339	1.8569	0.0062	1.0000	2.8176	0.0094	1.5174	13.2892	0.0443	7.1567
4535	352	0.0694	0.0002	0.0340	2.0384	0.0058	1.0000	2.8218	0.0080	1.3843	18.1790	0.0517	8.9183
4536	345	0.0765	0.0002	0.0391	1.9558	0.0057	1.0000	2.8459	0.0082	1.4551	17.9329	0.0519	9.1691
4537	312	0.0813	0.0003	0.0430	1.8927	0.0061	1.0000	2.7381	0.0088	1.4467	14.6032	0.0468	7.7155
4539	300	0.0734	0.0002	0.0399	1.8382	0.0061	1.0000	2.6265	0.0087	1.4288	12.8644	0.0428	6.9984
4540	359	0.0800	0.0002	0.0388	2.0628	0.0057	1.0000	3.0311	0.0084	1.4694	18.2552	0.0508	8.8497
4541	290	0.0916	0.0003	0.0474	1.9328	0.0067	1.0000	2.5288	0.0087	1.3084	12.6979	0.0439	6.5697
4542	268	0.0675	0.0003	0.0360	1.8728	0.0070	1.0000	2.2435	0.0084	1.1979	12.3581	0.0462	6.5987
4545	293	0.0801	0.0003	0.0434	1.8446	0.0063	1.0000	2.5420	0.0087	1.3781	14.5665	0.0497	7.8968
4546	352	0.0690	0.0002	0.0359	1.9232	0.0055	1.0000	2.7978	0.0080	1.4548	16.7635	0.0477	8.7165
4547	365	0.0923	0.0003	0.0450	2.0506	0.0056	1.0000	3.1394	0.0086	1.5310	18.1232	0.0496	8.8380
4548	271	0.0680	0.0003	0.0357	1.9051	0.0070	1.0000	2.6210	0.0097	1.3758	10.9666	0.0405	5.7564
4549	280	0.0702	0.0003	0.0355	1.9768	0.0070	1.0000	2.4548	0.0088	1.2418	13.9113	0.0496	7.0373
4550	282	0.0627	0.0002	0.0329	1.9051	0.0068	1.0000	2.3135	0.0082	1.2144	13.8635	0.0492	7.2770

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN			OVARY RIGHT		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1526	268	1.3146	0.0049	0.6797	0.0139	0.0001	0.0072	0.4915	0.0018	0.2541	0.0507	0.0002	0.0262
1527	306	1.2909	0.0042	0.6945	0.0121	0.0000	0.0065	0.6723	0.0022	0.3617	0.0329	0.0001	0.0177
1528	269	1.3974	0.0052	0.7094	0.0146	0.0001	0.0074	0.6331	0.0024	0.3214	0.0751	0.0003	0.0381
1529	309	1.4990	0.0048	0.7459	0.0129	0.0000	0.0064	0.4276	0.0014	0.2128	0.0670	0.0002	0.0333
1530	327	1.4945	0.0046	0.7771	0.0187	0.0001	0.0097	0.5916	0.0018	0.3076	0.0551	0.0002	0.0287
1531	295	1.4090	0.0048	0.7491	0.0153	0.0001	0.0081	0.4450	0.0015	0.2366	0.0612	0.0002	0.0325
1532	316	1.4956	0.0047	0.7933	0.0151	0.0000	0.0080	0.6370	0.0020	0.3379	0.0495	0.0002	0.0263
1533	329	1.5628	0.0047	0.7710	0.0178	0.0001	0.0088	0.5645	0.0017	0.2785	0.0590	0.0002	0.0291
1535	311	1.4794	0.0048	0.7647	0.0154	0.0000	0.0080	0.6440	0.0021	0.3329	0.0521	0.0002	0.0269
1536	331	1.4262	0.0043	0.7077	0.0156	0.0000	0.0077	0.7043	0.0021	0.3495	0.0515	0.0002	0.0256
1537	342	1.5461	0.0045	0.7625	0.0070	0.0000	0.0035	0.5333	0.0016	0.2630	0.0459	0.0001	0.0226
1539	339	1.6031	0.0047	0.8063	0.0137	0.0000	0.0069	0.6873	0.0020	0.3457	0.0785	0.0002	0.0395
1541	335	1.6498	0.0049	0.8102	0.0138	0.0000	0.0068	0.6265	0.0019	0.3077	0.0678	0.0002	0.0333
1542	300	1.6510	0.0055	0.8904	0.0153	0.0001	0.0083	0.6142	0.0020	0.3312	0.0695	0.0002	0.0375
1543	311	1.3524	0.0044	0.7651	0.0161	0.0001	0.0091	0.6290	0.0020	0.3558	0.0797	0.0003	0.0451
1544	344	1.5239	0.0044	0.7909	0.0175	0.0001	0.0091	0.6493	0.0019	0.3370	0.0578	0.0002	0.0300
1545	284	1.4049	0.0049	0.7176	0.0085	0.0000	0.0043	0.5663	0.0020	0.2892	0.0507	0.0002	0.0259
1546	304	1.3226	0.0043	0.6637	0.0144	0.0000	0.0072	0.5174	0.0017	0.2596	0.0587	0.0002	0.0295
1547	291	1.3949	0.0048	0.7204	0.0155	0.0001	0.0080	0.6403	0.0022	0.3307	0.0479	0.0002	0.0247
1550	268	1.4211	0.0053	0.7036	0.0141	0.0001	0.0070	0.4723	0.0018	0.2338	0.0543	0.0002	0.0269
1551	292	1.3189	0.0045	0.7369	0.0137	0.0000	0.0077	0.5777	0.0020	0.3228	0.0474	0.0002	0.0265

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN			OVARY RIGHT		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2526	303	1.5215	0.0050	0.8061	0.0198	0.0001	0.0105	0.5793	0.0019	0.3069	0.0673	0.0002	0.0357
2527	291	1.5100	0.0052	0.7978	0.0172	0.0001	0.0091	0.5762	0.0020	0.3044	0.0703	0.0002	0.0371
2528	330	1.3997	0.0042	0.7086	0.0204	0.0001	0.0103	0.6536	0.0020	0.3309	0.0494	0.0001	0.0250
2529	292	1.4160	0.0049	0.7492	0.0161	0.0001	0.0085	0.5114	0.0018	0.2706	0.0409	0.0001	0.0216
2530	291	1.4907	0.0051	0.7815	0.0198	0.0001	0.0104	0.5916	0.0020	0.3101	0.0640	0.0002	0.0336
2531	321	1.3404	0.0042	0.7001	0.0164	0.0001	0.0086	0.6127	0.0019	0.3200	0.0426	0.0001	0.0223
2532	309	1.2775	0.0041	0.7150	0.0149	0.0000	0.0083	0.5357	0.0017	0.2998	0.0529	0.0002	0.0296
2533	366	1.6978	0.0046	0.8271	0.0058	0.0000	0.0028	0.7501	0.0021	0.3654	0.0904	0.0002	0.0440
2534	326	1.4532	0.0045	0.7740	0.0148	0.0000	0.0079	0.6604	0.0020	0.3518	0.0379	0.0001	0.0202
2535	299	1.2094	0.0040	0.7108	0.0141	0.0000	0.0083	0.5664	0.0019	0.3329	0.0474	0.0002	0.0279
2537	348	1.7359	0.0050	0.8677	0.0165	0.0000	0.0082	0.6482	0.0019	0.3240	0.0629	0.0002	0.0314
2538	343	1.3408	0.0039	0.6524	0.0213	0.0001	0.0104	0.5947	0.0017	0.2894	0.0516	0.0002	0.0251
2539	315	1.4580	0.0046	0.7140	0.0167	0.0001	0.0082	0.5585	0.0018	0.2735	0.0477	0.0002	0.0234
2540	278	1.4775	0.0053	0.7797	0.0099	0.0000	0.0052	0.5794	0.0021	0.3058	0.0424	0.0002	0.0224
2541	310	1.5219	0.0049	0.7906	0.0132	0.0000	0.0069	0.5416	0.0017	0.2814	0.0559	0.0002	0.0290
2542	298	1.3924	0.0047	0.7310	0.0175	0.0001	0.0092	0.5906	0.0020	0.3100	0.0706	0.0002	0.0371
2543	PNMD 322	1.4711	0.0046	0.7777	0.0144	0.0000	0.0076	0.5190	0.0016	0.2744	0.0462	0.0001	0.0244
2545	331	1.4575	0.0044	0.7524	0.0157	0.0000	0.0081	0.6932	0.0021	0.3579	0.0649	0.0002	0.0335
2546	314	1.5393	0.0049	0.8073	0.0148	0.0000	0.0078	0.6631	0.0021	0.3478	0.0571	0.0002	0.0299
2547	265	1.4163	0.0053	0.7010	0.0168	0.0001	0.0083	0.5543	0.0021	0.2744	0.0440	0.0002	0.0218
2548	308	1.3839	0.0045	0.6926	0.0137	0.0000	0.0069	0.4858	0.0016	0.2431	0.0664	0.0002	0.0332
2550	293	1.3361	0.0046	0.7538	0.0180	0.0001	0.0102	0.6464	0.0022	0.3647	0.0382	0.0001	0.0216
2551	327	1.6982	0.0052	0.8629	0.0183	0.0001	0.0093	0.6772	0.0021	0.3441	0.0541	0.0002	0.0275

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN			OVARY RIGHT		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3527	303	1.5313	0.0051	0.7847	0.0182	0.0001	0.0093	0.5141	0.0017	0.2635	0.0548	0.0002	0.0281
3528	355	1.6385	0.0046	0.8163	0.0150	0.0000	0.0075	0.6621	0.0019	0.3299	0.0750	0.0002	0.0374
3529	287	1.3586	0.0047	0.7257	0.0113	0.0000	0.0060	0.5545	0.0019	0.2962	0.0672	0.0002	0.0359
3531	310	1.5106	0.0049	0.8017	0.0131	0.0000	0.0070	0.6387	0.0021	0.3390	0.0587	0.0002	0.0312
3532	297	1.4079	0.0047	0.7394	0.0127	0.0000	0.0067	0.6935	0.0023	0.3642	0.0629	0.0002	0.0330
3533	305	1.3556	0.0044	0.6875	0.0134	0.0000	0.0068	0.5213	0.0017	0.2644	0.0665	0.0002	0.0337
3535	275	1.3202	0.0048	0.7226	0.0165	0.0001	0.0090	0.4794	0.0017	0.2624	0.0621	0.0002	0.0340
3536	304	1.4837	0.0049	0.7325	0.0152	0.0000	0.0075	0.6035	0.0020	0.2980	0.0566	0.0002	0.0279
3537	288	1.4193	0.0049	0.7099	0.0170	0.0001	0.0085	0.5084	0.0018	0.2543	0.0547	0.0002	0.0274
3538	326	1.3836	0.0042	0.7176	0.0148	0.0000	0.0077	0.5582	0.0017	0.2895	0.0553	0.0002	0.0287
3539	343	1.4865	0.0043	0.7508	0.0170	0.0000	0.0086	0.6979	0.0020	0.3525	0.0622	0.0002	0.0314
3540	320	1.5132	0.0047	0.7725	0.0131	0.0000	0.0067	0.6758	0.0021	0.3450	0.0588	0.0002	0.0300
3541	339	1.6717	0.0049	0.8610	0.0161	0.0000	0.0083	0.7774	0.0023	0.4004	0.0446	0.0001	0.0230
3542	316	1.4166	0.0045	0.7315	0.0140	0.0000	0.0072	0.6194	0.0020	0.3198	0.0547	0.0002	0.0282
3543	291	1.4616	0.0050	0.7845	0.0132	0.0000	0.0071	0.6823	0.0023	0.3662	0.0445	0.0002	0.0239
3544	287	1.2889	0.0045	0.7347	0.0108	0.0000	0.0062	0.5717	0.0020	0.3259	0.0555	0.0002	0.0316
3545	336	1.5393	0.0046	0.8009	0.0156	0.0000	0.0081	0.6036	0.0018	0.3141	0.0536	0.0002	0.0279
3546	335	1.6583	0.0050	0.8589	0.0132	0.0000	0.0068	0.6720	0.0020	0.3481	0.0394	0.0001	0.0204
3547	275	1.3278	0.0048	0.7010	0.0134	0.0000	0.0071	0.5253	0.0019	0.2773	0.0542	0.0002	0.0286
3548	319	1.6905	0.0053	0.8770	0.0136	0.0000	0.0071	0.5809	0.0018	0.3014	0.0449	0.0001	0.0233
3549	289	1.4431	0.0050	0.7291	0.0147	0.0001	0.0074	0.6544	0.0023	0.3306	0.0685	0.0002	0.0346
3550	309	1.6271	0.0053	0.8299	0.0131	0.0000	0.0067	0.5301	0.0017	0.2704	0.0445	0.0001	0.0227
3551	318	1.4594	0.0046	0.7699	0.0189	0.0001	0.0100	0.5338	0.0017	0.2816	0.0592	0.0002	0.0312

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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	LUNGS			PITUITARY			SPLEEN			OVARY RIGHT		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4526	288	1.4435	0.0050	0.7266	0.0145	0.0001	0.0073	0.5439	0.0019	0.2738	0.0481	0.0002	0.0242
4527	306	1.2743	0.0042	0.6317	0.0119	0.0000	0.0059	0.4832	0.0016	0.2396	0.0490	0.0002	0.0243
4528	308	1.6807	0.0055	0.8276	0.0184	0.0001	0.0091	0.7423	0.0024	0.3655	0.0686	0.0002	0.0338
4529	353	1.8822	0.0053	0.9395	0.0198	0.0001	0.0099	0.6343	0.0018	0.3166	0.0843	0.0002	0.0421
4530	PNMD 307	1.4619	0.0048	0.8047	0.0106	0.0000	0.0058	0.6494	0.0021	0.3574	0.0832	0.0003	0.0458
4531	317	1.4770	0.0047	0.7510	0.0149	0.0000	0.0076	0.9196	0.0029	0.4676	0.0752	0.0002	0.0382
4532	300	1.4534	0.0048	0.7751	0.0140	0.0000	0.0075	0.5873	0.0020	0.3132	0.0486	0.0002	0.0259
4533	303	1.4590	0.0048	0.7611	0.0114	0.0000	0.0059	0.5999	0.0020	0.3129	0.0443	0.0001	0.0231
4534	300	1.6009	0.0053	0.8621	0.0149	0.0000	0.0080	0.6647	0.0022	0.3580	0.0580	0.0002	0.0312
4535	352	1.6058	0.0046	0.7878	0.0221	0.0001	0.0108	0.6429	0.0018	0.3154	0.0466	0.0001	0.0229
4536	345	1.5805	0.0046	0.8081	0.0157	0.0000	0.0080	0.5700	0.0017	0.2914	0.0627	0.0002	0.0321
4537	312	1.3715	0.0044	0.7246	0.0201	0.0001	0.0106	0.5868	0.0019	0.3100	0.0520	0.0002	0.0275
4539	300	1.3932	0.0046	0.7579	0.0137	0.0000	0.0075	0.5452	0.0018	0.2966	0.0389	0.0001	0.0212
4540	359	1.7763	0.0049	0.8611	0.0199	0.0001	0.0096	0.7263	0.0020	0.3521	0.0612	0.0002	0.0297
4541	290	1.3960	0.0048	0.7223	0.0145	0.0001	0.0075	0.5728	0.0020	0.2964	0.0725	0.0003	0.0375
4542	268	1.3239	0.0049	0.7069	0.0102	0.0000	0.0054	0.5176	0.0019	0.2764	0.0416	0.0002	0.0222
4545	293	1.4014	0.0048	0.7597	0.0119	0.0000	0.0065	0.6004	0.0021	0.3255	0.0544	0.0002	0.0295
4546	352	1.6520	0.0047	0.8590	0.0184	0.0001	0.0096	0.6920	0.0020	0.3598	0.0596	0.0002	0.0310
4547	365	1.5637	0.0043	0.7626	0.0192	0.0001	0.0094	0.6160	0.0017	0.3004	0.0651	0.0002	0.0317
4548	271	1.1615	0.0043	0.6097	0.0135	0.0000	0.0071	0.5294	0.0020	0.2779	0.0624	0.0002	0.0328
4549	280	1.3490	0.0048	0.6824	0.0187	0.0001	0.0095	0.5736	0.0020	0.2902	0.0507	0.0002	0.0256
4550	282	1.4316	0.0051	0.7515	0.0150	0.0001	0.0079	0.5284	0.0019	0.2774	0.0590	0.0002	0.0310

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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			OVARIES			UTERUS/OVIDUCTS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
1526	268	0.0473	0.0002	0.0245	0.0988	0.0004	0.0511	0.5877	0.0022	0.3038
1527	306	0.0390	0.0001	0.0210	0.0734	0.0002	0.0395	0.9044	0.0030	0.4866
1528	269	0.0575	0.0002	0.0292	0.1293	0.0005	0.0656	0.6518	0.0024	0.3309
1529	309	0.0626	0.0002	0.0312	0.1291	0.0004	0.0642	0.7285	0.0024	0.3625
1530	327	0.0509	0.0002	0.0265	0.1028	0.0003	0.0535	0.5036	0.0015	0.2619
1531	295	0.0378	0.0001	0.0201	0.0985	0.0003	0.0524	0.4778	0.0016	0.2540
1532	316	0.0430	0.0001	0.0228	0.0930	0.0003	0.0493	0.7759	0.0025	0.4116
1533	329	0.0584	0.0002	0.0288	0.1165	0.0004	0.0575	0.5997	0.0018	0.2958
1535	311	0.0450	0.0001	0.0233	0.0960	0.0003	0.0496	1.0705	0.0034	0.5534
1536	331	0.0337	0.0001	0.0167	0.0859	0.0003	0.0426	0.5840	0.0018	0.2898
1537	342	0.0727	0.0002	0.0359	0.1166	0.0003	0.0575	0.4749	0.0014	0.2342
1539	339	0.0708	0.0002	0.0356	0.1513	0.0004	0.0761	0.5855	0.0017	0.2945
1541	335	0.0476	0.0001	0.0234	0.1141	0.0003	0.0560	1.0390	0.0031	0.5102
1542	300	0.0848	0.0003	0.0457	0.1504	0.0005	0.0811	0.8168	0.0027	0.4405
1543	311	0.0627	0.0002	0.0355	0.1443	0.0005	0.0816	0.9533	0.0031	0.5393
1544	344	0.0439	0.0001	0.0228	0.1020	0.0003	0.0529	0.5109	0.0015	0.2652
1545	284	0.0662	0.0002	0.0338	0.1165	0.0004	0.0595	0.6452	0.0023	0.3295
1546	304	0.0464	0.0002	0.0233	0.1045	0.0003	0.0524	0.7678	0.0025	0.3853
1547	291	0.0393	0.0001	0.0203	0.0876	0.0003	0.0452	0.5400	0.0019	0.2789
1550	268	0.0450	0.0002	0.0223	0.0969	0.0004	0.0480	0.5383	0.0020	0.2665
1551	292	0.0570	0.0002	0.0318	0.1030	0.0004	0.0576	0.9440	0.0032	0.5275

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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			OVARIES			UTERUS/OVIDUCTS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
2526	303	0.0844	0.0003	0.0447	0.1489	0.0005	0.0789	1.2438	0.0041	0.6590
2527	291	0.0559	0.0002	0.0295	0.1258	0.0004	0.0665	0.7070	0.0024	0.3735
2528	330	0.0492	0.0001	0.0249	0.0985	0.0003	0.0499	0.6708	0.0020	0.3396
2529	292	0.0402	0.0001	0.0213	0.0805	0.0003	0.0426	0.4501	0.0015	0.2381
2530	291	0.0504	0.0002	0.0264	0.1128	0.0004	0.0591	0.7609	0.0026	0.3989
2531	321	0.0538	0.0002	0.0281	0.0974	0.0003	0.0509	0.5662	0.0018	0.2957
2532	309	0.0399	0.0001	0.0223	0.0940	0.0003	0.0526	0.7779	0.0025	0.4354
2533	366	0.0686	0.0002	0.0334	0.1618	0.0004	0.0788	0.5392	0.0015	0.2627
2534	326	0.0618	0.0002	0.0329	0.0999	0.0003	0.0532	0.9750	0.0030	0.5193
2535	299	0.0415	0.0001	0.0244	0.0896	0.0003	0.0527	0.6396	0.0021	0.3759
2537	348	0.0452	0.0001	0.0226	0.1070	0.0003	0.0535	0.5791	0.0017	0.2895
2538	343	0.0612	0.0002	0.0298	0.1113	0.0003	0.0542	0.5657	0.0016	0.2753
2539	315	0.0494	0.0002	0.0242	0.0971	0.0003	0.0476	0.5778	0.0018	0.2830
2540	278	0.0617	0.0002	0.0326	0.1024	0.0004	0.0540	0.5409	0.0019	0.2854
2541	310	0.0720	0.0002	0.0374	0.1285	0.0004	0.0668	0.5194	0.0017	0.2698
2542	298	0.0579	0.0002	0.0304	0.1262	0.0004	0.0663	0.8274	0.0028	0.4344
2543	PNMD 322	0.0566	0.0002	0.0299	0.1032	0.0003	0.0546	0.7186	0.0022	0.3799
2545	331	0.0458	0.0001	0.0236	0.1121	0.0003	0.0579	0.9739	0.0029	0.5028
2546	314	0.0551	0.0002	0.0289	0.1112	0.0004	0.0583	0.5610	0.0018	0.2942
2547	265	0.0483	0.0002	0.0239	0.0911	0.0003	0.0451	0.4982	0.0019	0.2466
2548	308	0.0535	0.0002	0.0268	0.1191	0.0004	0.0596	0.7594	0.0025	0.3800
2550	293	0.0656	0.0002	0.0370	0.1022	0.0003	0.0577	0.8173	0.0028	0.4611
2551	327	0.0570	0.0002	0.0290	0.1105	0.0003	0.0561	0.9137	0.0028	0.4643

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE



## APPENDIX X P0 GENERATION

GASOLINE DIPE 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			OVARIES			UTERUS/OVIDUCTS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
3527	303	0.0539	0.0002	0.0276	0.1082	0.0004	0.0554	0.6043	0.0020	0.3097
3528	355	0.0658	0.0002	0.0328	0.1390	0.0004	0.0693	0.6980	0.0020	0.3477
3529	287	0.0547	0.0002	0.0292	0.1198	0.0004	0.0640	0.6603	0.0023	0.3527
3531	310	0.0665	0.0002	0.0353	0.1208	0.0004	0.0641	0.7209	0.0023	0.3826
3532	297	0.0518	0.0002	0.0272	0.1124	0.0004	0.0590	0.4865	0.0016	0.2555
3533	305	0.0705	0.0002	0.0358	0.1377	0.0005	0.0698	0.5298	0.0017	0.2687
3535	275	0.0532	0.0002	0.0291	0.1145	0.0004	0.0627	0.5928	0.0022	0.3245
3536	304	0.0581	0.0002	0.0287	0.1143	0.0004	0.0564	0.5523	0.0018	0.2727
3537	288	0.0418	0.0001	0.0209	0.0969	0.0003	0.0485	1.1840	0.0041	0.5922
3538	326	0.0465	0.0001	0.0241	0.1021	0.0003	0.0530	0.5887	0.0018	0.3053
3539	343	0.0466	0.0001	0.0235	0.1145	0.0003	0.0578	0.4864	0.0014	0.2457
3540	320	0.0495	0.0002	0.0253	0.1083	0.0003	0.0553	0.6317	0.0020	0.3225
3541	339	0.0417	0.0001	0.0215	0.0822	0.0002	0.0423	0.4900	0.0014	0.2524
3542	316	0.0610	0.0002	0.0315	0.1156	0.0004	0.0597	0.5714	0.0018	0.2950
3543	291	0.0308	0.0001	0.0165	0.0755	0.0003	0.0405	0.4602	0.0016	0.2470
3544	287	0.0415	0.0001	0.0237	0.0968	0.0003	0.0552	0.5992	0.0021	0.3416
3545	336	0.0400	0.0001	0.0208	0.0945	0.0003	0.0492	0.5435	0.0016	0.2828
3546	335	0.0600	0.0002	0.0311	0.0960	0.0003	0.0497	0.5125	0.0015	0.2654
3547	275	0.0560	0.0002	0.0296	0.1083	0.0004	0.0572	0.4475	0.0016	0.2362
3548	319	0.0557	0.0002	0.0289	0.1174	0.0004	0.0609	0.6893	0.0022	0.3576
3549	289	0.0621	0.0002	0.0314	0.1291	0.0004	0.0652	0.6766	0.0023	0.3418
3550	309	0.0578	0.0002	0.0295	0.1014	0.0003	0.0517	0.5997	0.0019	0.3059
3551	318	0.0580	0.0002	0.0306	0.1168	0.0004	0.0616	0.5997	0.0019	0.3164

%FBW = ORGAN WEIGHT/BODY WEIGHT    %Brain = ORGAN WEIGHT/BRAIN WEIGHT

## APPENDIX X P0 GENERATION

GASOLINE DIPE 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			OVARIES			UTERUS/OVIDUCTS		
		Weight g	%FBW	%Brain	Weight g	%FBW	%Brain	Weight g	%FBW	%Brain
4526	288	0.0524	0.0002	0.0264	0.0995	0.0003	0.0501	0.5068	0.0018	0.2551
4527	306	0.0406	0.0001	0.0201	0.0898	0.0003	0.0445	0.7180	0.0023	0.3560
4528	308	0.0675	0.0002	0.0332	0.1355	0.0004	0.0667	0.6311	0.0021	0.3108
4529	353	0.0580	0.0002	0.0290	0.1414	0.0004	0.0706	1.0146	0.0029	0.5064
4530	PNMD 307	0.0583	0.0002	0.0321	0.1423	0.0005	0.0783	0.4704	0.0015	0.2589
4531	317	0.0524	0.0002	0.0266	0.1259	0.0004	0.0640	0.6767	0.0021	0.3441
4532	300	0.0475	0.0002	0.0253	0.0961	0.0003	0.0513	0.4131	0.0014	0.2203
4533	303	0.0451	0.0001	0.0235	0.0909	0.0003	0.0474	0.4052	0.0013	0.2114
4534	300	0.0609	0.0002	0.0328	0.1178	0.0004	0.0634	1.0442	0.0035	0.5623
4535	352	0.0661	0.0002	0.0324	0.1080	0.0003	0.0530	0.6108	0.0017	0.2996
4536	345	0.0577	0.0002	0.0295	0.1199	0.0003	0.0613	0.5907	0.0017	0.3020
4537	312	0.0451	0.0001	0.0238	0.0979	0.0003	0.0517	0.9512	0.0030	0.5026
4539	300	0.0489	0.0002	0.0266	0.0848	0.0003	0.0461	0.6156	0.0020	0.3349
4540	359	0.0755	0.0002	0.0366	0.1344	0.0004	0.0652	0.5192	0.0014	0.2517
4541	290	0.0754	0.0003	0.0390	0.1476	0.0005	0.0764	0.6463	0.0022	0.3344
4542	268	0.0554	0.0002	0.0296	0.0969	0.0004	0.0517	0.4756	0.0018	0.2540
4545	293	0.0725	0.0002	0.0393	0.1274	0.0004	0.0691	0.7212	0.0025	0.3910
4546	352	0.0586	0.0002	0.0305	0.1145	0.0003	0.0595	0.9667	0.0027	0.5027
4547	365	0.0686	0.0002	0.0335	0.1333	0.0004	0.0650	0.9168	0.0025	0.4471
4548	271	0.0679	0.0003	0.0356	0.1302	0.0005	0.0683	0.7685	0.0028	0.4034
4549	280	0.0535	0.0002	0.0271	0.1073	0.0004	0.0543	0.6419	0.0023	0.3247
4550	282	0.0547	0.0002	0.0287	0.1137	0.0004	0.0597	0.4997	0.0018	0.2623

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

PNMD=PREGNANT, NO MATING DATE

---

	Individual Pup Organ Weights Preface	Appendix Y
--	---	------------

**Table of Contents**F<sub>1</sub> Generation

Absolute Organ Weights and % Organ to Body Weight Ratios ..... 492

Absolute Organ Weights and % Organ to Brain Weight Ratios ..... 500

**Key to Abbreviations:**

g = Grams

## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
1526	4	M	87.3	1.6635	1.9055	0.2952	0.3381	0.4230	0.4845
	10	F	75.1	1.5478	2.0610	0.2587	0.3445	0.3330	0.4434
1527	8	M	86.4	1.7058	1.9743	0.3929	0.4547	0.3893	0.4506
	11	F	80.1	1.5981	1.9951	0.3573	0.4461	0.4231	0.5282
1528	5	M	91.6	1.6295	1.7789	0.4421	0.4826	0.4600	0.5022
	9	F	87.4	1.5541	1.7781	0.3883	0.4443	0.4554	0.5211
1529	2	M	87.0	1.5788	1.8147	0.3681	0.4231	0.2972	0.3416
	10	F	79.1	1.4446	1.8263	0.3129	0.3956	0.3297	0.4168
1530	2	M	105.0	1.7142	1.6326	0.5212	0.4964	0.3831	0.3649
	5	F	89.9	1.5861	1.7643	0.3204	0.3564	0.3807	0.4235
1531	1	M	64.0	1.5543	2.4286	0.2186	0.3416	0.2291	0.3580
	10	F	59.1	1.5119	2.5582	0.2409	0.4076	0.2636	0.4460
1532	9	M	80.7	1.5049	1.8648	0.3813	0.4725	0.2565	0.3178
	11	F	71.4	1.4989	2.0993	0.3181	0.4455	0.2338	0.3275
1533	3	M	83.8	1.5961	1.9047	0.3228	0.3852	0.4841	0.5777
	13	F	79.5	1.6198	2.0375	0.3349	0.4213	0.3759	0.4728
1535	1	M	59.7	1.5108	2.5307	0.2321	0.3888	0.2323	0.3891
	9	F	66.2	1.4593	2.2044	0.3095	0.4675	0.4214	0.6366
1536	4	M	83.3	1.6626	1.9959	0.3779	0.4537	0.3783	0.4541
	8	F	82.7	1.5887	1.9210	0.3136	0.3792	0.3615	0.4371
1537	6	M	82.2	1.6615	2.0213	0.3632	0.4418	0.2512	0.3056
	13	F	84.9	1.5728	1.8525	0.3423	0.4032	0.3648	0.4297
1539	7	M	88.1	1.6265	1.8462	0.4056	0.4604	0.4740	0.5380

## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
1539	(continued)								
	10	F	69.9	1.4850	2.1245	0.3068	0.4389	0.3819	0.5464
1541	7	M	87.6	1.6447	1.8775	0.3679	0.4200	0.3294	0.3760
	12	F	79.4	1.5057	1.8963	0.2854	0.3594	0.3091	0.3893
1542	5	M	76.4	1.5558	2.0364	0.3315	0.4339	0.4013	0.5253
	8	F	69.0	1.4586	2.1139	0.2665	0.3862	0.3418	0.4954
1543	6	M	78.6	1.5333	1.9508	0.3536	0.4499	0.2764	0.3517
	8	F	77.1	1.5543	2.0160	0.4021	0.5215	0.3261	0.4230
1544	8	M	82.1	1.6006	1.9496	0.3313	0.4035	0.3084	0.3756
	13	F	79.6	1.5836	1.9894	0.3876	0.4869	0.3634	0.4565
1545	2	M	66.7	1.4035	2.1042	0.2651	0.3975	0.2398	0.3595
	11	F	70.9	1.4983	2.1133	0.3229	0.4554	0.2964	0.4181
1546	5	M	86.2	1.5629	1.8131	0.2981	0.3458	0.2779	0.3224
	6	F	75.9	1.5404	2.0295	0.2415	0.3182	0.3008	0.3963
1547	4	M	79.1	1.5266	1.9300	0.3372	0.4263	0.3611	0.4565
	6	F	79.5	1.5151	1.9058	0.3277	0.4122	0.3726	0.4687
1550	4	M	72.0	1.4867	2.0649	0.3018	0.4192	0.3157	0.4385
	12	F	62.2	1.4719	2.3664	0.2059	0.3310	0.1574	0.2531
1551	2	M	80.7	1.5679	1.9429	0.3678	0.4558	0.3263	0.4043
	6	F	65.6	1.4553	2.2184	0.2030	0.3095	0.3242	0.4942

## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
2526	11	M	78.3	1.6181	2.0665	0.2698	0.3446	0.4092	0.5226
	16	F	69.3	1.5905	2.2951	0.2807	0.4051	0.3168	0.4571
2527	1	M	76.3	1.5988	2.0954	0.2659	0.3485	0.3047	0.3993
	11	F	64.4	1.4222	2.2084	0.2500	0.3882	0.2632	0.4087
2528	3	M	74.2	1.5527	2.0926	0.3482	0.4693	0.3266	0.4402
	14	F	66.2	1.4322	2.1634	0.2902	0.4384	0.3215	0.4856
2529	2	M	69.1	1.5433	2.2334	0.2654	0.3841	0.3642	0.5271
	12	F	69.5	1.5262	2.1960	0.2988	0.4299	0.3287	0.4729
2530	6	M	95.6	1.6540	1.7301	0.3057	0.3198	0.3476	0.3636
	12	F	82.6	1.5712	1.9022	0.3206	0.3881	0.4472	0.5414
2531	3	M	78.0	1.5916	2.0405	0.2910	0.3731	0.3806	0.4879
	15	F	77.9	1.4933	1.9169	0.2941	0.3775	0.4895	0.6284
2532	9	M	79.7	1.5641	1.9625	0.3004	0.3769	0.3436	0.4311
	13	F	75.2	1.5630	2.0785	0.2834	0.3769	0.3682	0.4896
2533	1	M	91.2	1.6443	1.8030	0.4076	0.4469	0.5279	0.5788
	15	F	82.8	1.6163	1.9521	0.3943	0.4762	0.4913	0.5934
2534	4	M	75.8	1.6325	2.1537	0.3038	0.4008	0.4184	0.5520
	11	F	72.2	1.4984	2.0753	0.2873	0.3979	0.4009	0.5553
2535	2	M	69.8	1.3928	1.9954	0.2751	0.3941	0.3546	0.5080
	9	F	80.6	1.5202	1.8861	0.2767	0.3433	0.4022	0.4990
2537	3	M	105.5	1.6101	1.5262	0.3987	0.3779	0.5236	0.4963
	4	F	88.9	1.5389	1.7310	0.3339	0.3756	0.4197	0.4721
2538	5	M	89.7	1.6768	1.8693	0.4748	0.5293	0.4829	0.5384

## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
2538	(continued)								
	10	F	77.4	1.5574	2.0121	0.3022	0.3904	0.4356	0.5628
2539	4	M	81.1	1.6087	1.9836	0.3032	0.3739	0.3365	0.4149
	9	F	80.0	1.5591	1.9489	0.2889	0.3611	0.3161	0.3951
2540	6	M	80.4	1.5624	1.9433	0.3142	0.3908	0.3355	0.4173
	7	F	80.2	1.5003	1.8707	0.3046	0.3798	0.3355	0.4183
2541	1	M	79.5	1.5409	1.9382	0.2880	0.3623	0.3293	0.4142
	6	F	69.0	1.5358	2.2258	0.2679	0.3883	0.3044	0.4412
2542	5	M	77.2	1.4912	1.9316	0.3327	0.4310	0.3687	0.4776
	8	F	77.3	1.4064	1.8194	0.2887	0.3735	0.3306	0.4277
2543	6	M	82.1	1.5275	1.8605	0.3209	0.3909	0.3853	0.4693
	12	F	83.1	1.6215	1.9513	0.2981	0.3587	0.5042	0.6067
2545	1	M	73.1	1.5836	2.1663	0.3058	0.4183	0.2838	0.3882
	12	F	72.8	1.5095	2.0735	0.2641	0.3628	0.3369	0.4628
2546	1	M	96.5	1.6034	1.6616	0.4144	0.4294	0.4221	0.4374
	10	F	90.7	1.5840	1.7464	0.3410	0.3760	0.4184	0.4613
2547	4	M	71.6	1.6636	2.3235	0.2774	0.3874	0.2726	0.3807
	9	F	64.6	1.5846	2.4529	0.2331	0.3608	0.2784	0.4310
2548	1	M	84.4	1.5975	1.8928	0.3106	0.3680	0.3081	0.3650
	13	F	74.3	1.5052	2.0258	0.2803	0.3773	0.2923	0.3934
2550	2	M	42.3	1.2478	2.9499	0.2208	0.5220	0.2241	0.5298
	8	F	70.6	1.5451	2.1885	0.3113	0.4409	0.3797	0.5378
2551	2	M	90.2	1.5684	1.7388	0.4391	0.4868	0.4607	0.5108
	10	F	84.5	1.5600	1.8462	0.3733	0.4418	0.4498	0.5323

## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
3527	3	M	74.4	1.4606	1.9632	0.2870	0.3858	0.2996	0.4027
	13	F	69.4	1.5148	2.1827	0.2561	0.3690	0.3588	0.5170
3528	2	M	77.2	1.5610	2.0220	0.3620	0.4689	0.3477	0.4504
	15	F	82.7	1.6389	1.9817	0.3325	0.4021	0.4825	0.5834
3529	5	M	80.8	1.5563	1.9261	0.3459	0.4281	0.4578	0.5666
	14	F	72.2	1.5221	2.1082	0.2726	0.3776	0.3983	0.5517
3531	5	M	41.9	1.4318	3.4172	0.1480	0.3532	0.1180	0.2816
	9	F	65.6	1.4859	2.2651	0.2530	0.3857	0.3048	0.4646
3532	9	F	83.8	1.6259	1.9402	0.3346	0.3993	0.4296	0.5126
	12	M	81.3	1.6251	1.9989	0.3272	0.4025	0.4481	0.5512
3533	1	M	68.1	1.5061	2.2116	0.2652	0.3894	0.2893	0.4248
	13	F	60.3	1.4384	2.3854	0.1954	0.3240	0.3448	0.5718
3535	1	M	60.4	1.4675	2.4296	0.2392	0.3960	0.2253	0.3730
	15	F	55.9	1.4045	2.5125	0.1782	0.3188	0.2591	0.4635
3536	2	M	77.3	1.6217	2.0979	0.3359	0.4345	0.4429	0.5730
	10	F	70.5	1.5073	2.1380	0.2840	0.4028	0.3768	0.5345
3537	3	M	86.3	1.6212	1.8786	0.3290	0.3812	0.4376	0.5071
	13	F	75.8	1.5736	2.0760	0.2926	0.3860	0.3384	0.4464
3538	1	M	77.5	1.6451	2.1227	0.2985	0.3852	0.3570	0.4606
	11	F	77.5	1.5596	2.0124	0.3369	0.4347	0.3746	0.4834
3539	5	M	85.2	1.6564	1.9441	0.4276	0.5019	0.3941	0.4626
	11	F	67.4	1.5593	2.3135	0.2644	0.3923	0.2913	0.4322
3540	2	M	85.6	1.5612	1.8238	0.3886	0.4540	0.3800	0.4439



## APPENDIX Y F1 GENERATION

GASOLINE DIPE 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
3540	(continued)								
	13	F	80.2	1.5592	1.9441	0.3123	0.3894	0.4793	0.5976
3541	5	M	98.4	1.6801	1.7074	0.4746	0.4823	0.4214	0.4283
	14	F	89.8	1.5283	1.7019	0.3730	0.4154	0.4039	0.4498
3542	1	M	87.2	1.7123	1.9636	0.4146	0.4755	0.4047	0.4641
	8	F	80.4	1.6336	2.0318	0.2808	0.3493	0.4060	0.5050
3543	3	M	71.8	1.4558	2.0276	0.2913	0.4057	0.3286	0.4577
	9	F	71.7	1.4384	2.0061	0.2647	0.3692	0.3486	0.4862
3544	2	M	70.2	1.4253	2.0303	0.4062	0.5786	0.3154	0.4493
	10	F	68.5	1.3822	2.0178	0.3317	0.4842	0.3384	0.4940
3545	3	M	91.3	1.6104	1.7639	0.3438	0.3766	0.3912	0.4285
	13	F	78.4	1.5311	1.9529	0.2695	0.3437	0.3564	0.4546
3546	6	M	89.9	1.6226	1.8049	0.4419	0.4915	0.3793	0.4219
	10	F	73.9	1.5126	2.0468	0.3273	0.4429	0.3550	0.4804
3547	6	M	78.4	1.4517	1.8517	0.3239	0.4131	0.3827	0.4881
	7	F	67.5	1.3869	2.0547	0.3343	0.4953	0.3582	0.5307
3548	2	M	92.3	1.5685	1.6993	0.3662	0.3967	0.5282	0.5723
	9	F	77.2	1.5315	1.9838	0.2989	0.3872	0.4246	0.5500
3549	2	M	80.8	1.6042	1.9854	0.4282	0.5300	0.4164	0.5153
	8	F	73.9	1.5253	2.0640	0.3449	0.4667	0.4253	0.5755
3550	7	M	63.8	1.5579	2.4418	0.2227	0.3491	0.2234	0.3502
	13	F	69.6	1.5527	2.2309	0.3180	0.4569	0.3543	0.5091
3551	5	M	88.6	1.6458	1.8576	0.3949	0.4457	0.4535	0.5119
	14	F	76.1	1.4841	1.9502	0.2593	0.3407	0.3728	0.4899

## APPENDIX Y F1 GENERATION

GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
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
4526	6	M	69.4	1.5900	2.2911	0.2610	0.3761	0.3437	0.4952
	13	F	65.9	1.5093	2.2903	0.2536	0.3848	0.2959	0.4490
4527	2	M	82.3	1.6845	2.0468	0.2989	0.3632	0.3947	0.4796
	10	F	72.9	1.5719	2.1562	0.2577	0.3535	0.3715	0.5096
4528	5	M	73.3	1.5686	2.1400	0.3223	0.4397	0.3162	0.4314
	11	F	68.6	1.4889	2.1704	0.2670	0.3892	0.3539	0.5159
4529	3	M	77.1	1.6241	2.1065	0.3153	0.4089	0.2591	0.3361
	15	F	77.3	1.5165	1.9618	0.2907	0.3761	0.3411	0.4413
4530	3	M	73.3	1.5800	2.1555	0.2314	0.3157	0.2733	0.3729
	7	F	73.0	1.4575	1.9966	0.2425	0.3322	0.3562	0.4879
4531	3	M	71.9	1.5429	2.1459	0.3105	0.4318	0.3014	0.4192
	9	F	71.3	1.4720	2.0645	0.3094	0.4339	0.3167	0.4442
4532	8	M	92.5	1.6124	1.7431	0.4105	0.4438	0.4977	0.5381
	11	F	74.1	1.5440	2.0837	0.3080	0.4157	0.3749	0.5059
4533	6	M	64.3	1.4033	2.1824	0.3446	0.5359	0.3006	0.4675
	9	F	69.2	1.4734	2.1292	0.3914	0.5656	0.2759	0.3987
4534	4	M	85.4	1.6063	1.8809	0.3910	0.4578	0.3234	0.3787
	12	F	80.4	1.5083	1.8760	0.2976	0.3701	0.3687	0.4586
4535	6	M	74.0	1.5830	2.1392	0.2355	0.3182	0.3228	0.4362
	15	F	74.5	1.5242	2.0459	0.2357	0.3164	0.3881	0.5209
4536	6	M	89.5	1.6077	1.7963	0.3940	0.4402	0.4485	0.5011
	9	F	73.5	1.5048	2.0473	0.2562	0.3486	0.3505	0.4769
4537	2	M	70.6	1.5821	2.2409	0.2514	0.3561	0.2224	0.3150

## APPENDIX Y F1 GENERATION

GASOLINE DIPE VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY  
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
4537	(continued)								
	9	F	83.9	1.5349	1.8294	0.3574	0.4260	0.3401	0.4054
4539	3	M	84.0	1.6141	1.9215	0.2813	0.3349	0.2915	0.3470
	8	F	84.2	1.5236	1.8095	0.3069	0.3645	0.4142	0.4919
4540	6	M	88.1	1.5921	1.8072	0.3782	0.4293	0.4326	0.4910
	12	F	77.2	1.5358	1.9894	0.3555	0.4605	0.4391	0.5688
4541	3	M	70.7	1.5188	2.1482	0.3050	0.4314	0.2143	0.3031
	12	F	79.4	1.4771	1.8603	0.3549	0.4470	0.3694	0.4652
4542	2	M	92.7	1.5190	1.6386	0.3666	0.3955	0.5598	0.6039
	7	F	80.0	1.5489	1.9361	0.2422	0.3027	0.4369	0.5461
4545	6	M	75.5	1.5021	1.9895	0.3198	0.4236	0.4134	0.5475
	11	F	63.6	1.4356	2.2572	0.2223	0.3495	0.3621	0.5693
4546	4	M	72.3	1.5617	2.1600	0.3026	0.4185	0.3637	0.5030
	10	F	70.2	1.4631	2.0842	0.2413	0.3437	0.3731	0.5315
4547	2	M	88.1	1.5124	1.7167	0.3743	0.4249	0.3504	0.3977
	13	F	76.7	1.5273	1.9913	0.2870	0.3742	0.3658	0.4769
4548	1	M	58.6	1.4496	2.4737	0.2164	0.3693	0.2596	0.4430
	12	F	65.7	1.5342	2.3352	0.2643	0.4023	0.3383	0.5149
4549	6	M	78.4	1.5552	1.9837	0.2918	0.3722	0.3282	0.4186
	10	F	73.6	1.5510	2.1073	0.2864	0.3891	0.2909	0.3952
4550	8	M	69.9	1.5266	2.1840	0.2512	0.3594	0.3516	0.5030
	12	F	75.1	1.5166	2.0194	0.2872	0.3824	0.3565	0.4747

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
1526	4	M	1.6635	0.2952	17.746	0.4230	25.428		
	10	F	1.5478	0.2587	16.714	0.3330	21.514		
1527	8	M	1.7058	0.3929	23.033	0.3893	22.822		
	11	F	1.5981	0.3573	22.358	0.4231	26.475		
1528	5	M	1.6295	0.4421	27.131	0.4600	28.230		
	9	F	1.5541	0.3883	24.986	0.4554	29.303		
1529	2	M	1.5788	0.3681	23.315	0.2972	18.824		
	10	F	1.4446	0.3129	21.660	0.3297	22.823		
1530	2	M	1.7142	0.5212	30.405	0.3831	22.349		
	5	F	1.5861	0.3204	20.200	0.3807	24.002		
1531	1	M	1.5543	0.2186	14.064	0.2291	14.740		
	10	F	1.5119	0.2409	15.934	0.2636	17.435		
1532	9	M	1.5049	0.3813	25.337	0.2565	17.044		
	11	F	1.4989	0.3181	21.222	0.2338	15.598		
1533	3	M	1.5961	0.3228	20.224	0.4841	30.330		
	13	F	1.6198	0.3349	20.675	0.3759	23.207		
1535	1	M	1.5108	0.2321	15.363	0.2323	15.376		
	9	F	1.4593	0.3095	21.209	0.4214	28.877		
1536	4	M	1.6626	0.3779	22.729	0.3783	22.754		
	8	F	1.5887	0.3136	19.739	0.3615	22.754		
1537	6	M	1.6615	0.3632	21.860	0.2512	15.119		
	13	F	1.5728	0.3423	21.764	0.3648	23.194		
1539	7	M	1.6265	0.4056	24.937	0.4740	29.142		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
1539	(continued)								
	10	F	1.4850	0.3068	20.660	0.3819	25.717		
1541	7	M	1.6447	0.3679	22.369	0.3294	20.028		
	12	F	1.5057	0.2854	18.955	0.3091	20.529		
1542	5	M	1.5558	0.3315	21.307	0.4013	25.794		
	8	F	1.4586	0.2665	18.271	0.3418	23.433		
1543	6	M	1.5333	0.3536	23.061	0.2764	18.026		
	8	F	1.5543	0.4021	25.870	0.3261	20.981		
1544	8	M	1.6006	0.3313	20.698	0.3084	19.268		
	13	F	1.5836	0.3876	24.476	0.3634	22.948		
1545	2	M	1.4035	0.2651	18.888	0.2398	17.086		
	11	F	1.4983	0.3229	21.551	0.2964	19.782		
1546	5	M	1.5629	0.2981	19.074	0.2779	17.781		
	6	F	1.5404	0.2415	15.678	0.3008	19.527		
1547	4	M	1.5266	0.3372	22.088	0.3611	23.654		
	6	F	1.5151	0.3277	21.629	0.3726	24.592		
1550	4	M	1.4867	0.3018	20.300	0.3157	21.235		
	12	F	1.4719	0.2059	13.989	0.1574	10.694		
1551	2	M	1.5679	0.3678	23.458	0.3263	20.811		
	6	F	1.4553	0.2030	13.949	0.3242	22.277		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
2526	11	M	1.6181	0.2698	16.674	0.4092	25.289		
	16	F	1.5905	0.2807	17.649	0.3168	19.918		
2527	1	M	1.5988	0.2659	16.631	0.3047	19.058		
	11	F	1.4222	0.2500	17.578	0.2632	18.507		
2528	3	M	1.5527	0.3482	22.425	0.3266	21.034		
	14	F	1.4322	0.2902	20.263	0.3215	22.448		
2529	2	M	1.5433	0.2654	17.197	0.3642	23.599		
	12	F	1.5262	0.2988	19.578	0.3287	21.537		
2530	6	M	1.6540	0.3057	18.482	0.3476	21.016		
	12	F	1.5712	0.3206	20.405	0.4472	28.462		
2531	3	M	1.5916	0.2910	18.283	0.3806	23.913		
	15	F	1.4933	0.2941	19.695	0.4895	32.780		
2532	9	M	1.5641	0.3004	19.206	0.3436	21.968		
	13	F	1.5630	0.2834	18.132	0.3682	23.557		
2533	1	M	1.6443	0.4076	24.789	0.5279	32.105		
	15	F	1.6163	0.3943	24.395	0.4913	30.397		
2534	4	M	1.6325	0.3038	18.609	0.4184	25.629		
	11	F	1.4984	0.2873	19.174	0.4009	26.755		
2535	2	M	1.3928	0.2751	19.752	0.3546	25.460		
	9	F	1.5202	0.2767	18.202	0.4022	26.457		
2537	3	M	1.6101	0.3987	24.762	0.5236	32.520		
	4	F	1.5389	0.3339	21.697	0.4197	27.273		
2538	5	M	1.6768	0.4748	28.316	0.4829	28.799		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
2538	(continued)								
	10	F	1.5574	0.3022	19.404	0.4356	27.970		
2539	4	M	1.6087	0.3032	18.848	0.3365	20.918		
	9	F	1.5591	0.2889	18.530	0.3161	20.275		
2540	6	M	1.5624	0.3142	20.110	0.3355	21.473		
	7	F	1.5003	0.3046	20.303	0.3355	22.362		
2541	1	M	1.5409	0.2880	18.690	0.3293	21.371		
	6	F	1.5358	0.2679	17.444	0.3044	19.820		
2542	5	M	1.4912	0.3327	22.311	0.3687	24.725		
	8	F	1.4064	0.2887	20.528	0.3306	23.507		
2543	6	M	1.5275	0.3209	21.008	0.3853	25.224		
	12	F	1.6215	0.2981	18.384	0.5042	31.095		
2545	1	M	1.5836	0.3058	19.310	0.2838	17.921		
	12	F	1.5095	0.2641	17.496	0.3369	22.319		
2546	1	M	1.6034	0.4144	25.845	0.4221	26.325		
	10	F	1.5840	0.3410	21.528	0.4184	26.414		
2547	4	M	1.6636	0.2774	16.675	0.2726	16.386		
	9	F	1.5846	0.2331	14.710	0.2784	17.569		
2548	1	M	1.5975	0.3106	19.443	0.3081	19.286		
	13	F	1.5052	0.2803	18.622	0.2923	19.419		
2550	2	M	1.2478	0.2208	17.695	0.2241	17.960		
	8	F	1.5451	0.3113	20.148	0.3797	24.574		
2551	2	M	1.5684	0.4391	27.997	0.4607	29.374		
	10	F	1.5600	0.3733	23.929	0.4498	28.833		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
3527	3	M	1.4606	0.2870	19.649	0.2996	20.512		
	13	F	1.5148	0.2561	16.907	0.3588	23.686		
3528	2	M	1.5610	0.3620	23.190	0.3477	22.274		
	15	F	1.6389	0.3325	20.288	0.4825	29.440		
3529	5	M	1.5563	0.3459	22.226	0.4578	29.416		
	14	F	1.5221	0.2726	17.909	0.3983	26.168		
3531	5	M	1.4318	0.1480	10.337	0.1180	8.241		
	9	F	1.4859	0.2530	17.027	0.3048	20.513		
3532	9	F	1.6259	0.3346	20.579	0.4296	26.422		
	12	M	1.6251	0.3272	20.134	0.4481	27.574		
3533	1	M	1.5061	0.2652	17.608	0.2893	19.209		
	13	F	1.4384	0.1954	13.585	0.3448	23.971		
3535	1	M	1.4675	0.2392	16.300	0.2253	15.353		
	15	F	1.4045	0.1782	12.688	0.2591	18.448		
3536	2	M	1.6217	0.3359	20.713	0.4429	27.311		
	10	F	1.5073	0.2840	18.842	0.3768	24.998		
3537	3	M	1.6212	0.3290	20.294	0.4376	26.992		
	13	F	1.5736	0.2926	18.594	0.3384	21.505		
3538	1	M	1.6451	0.2985	18.145	0.3570	21.701		
	11	F	1.5596	0.3369	21.602	0.3746	24.019		
3539	5	M	1.6564	0.4276	25.815	0.3941	23.793		
	11	F	1.5593	0.2644	16.956	0.2913	18.681		
3540	2	M	1.5612	0.3886	24.891	0.3800	24.340		



## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
3540	(continued)								
	13	F	1.5592	0.3123	20.030	0.4793	30.740		
3541	5	M	1.6801	0.4746	28.248	0.4214	25.082		
	14	F	1.5283	0.3730	24.406	0.4039	26.428		
3542	1	M	1.7123	0.4146	24.213	0.4047	23.635		
	8	F	1.6336	0.2808	17.189	0.4060	24.853		
3543	3	M	1.4558	0.2913	20.010	0.3286	22.572		
	9	F	1.4384	0.2647	18.402	0.3486	24.235		
3544	2	M	1.4253	0.4062	28.499	0.3154	22.129		
	10	F	1.3822	0.3317	23.998	0.3384	24.483		
3545	3	M	1.6104	0.3438	21.349	0.3912	24.292		
	13	F	1.5311	0.2695	17.602	0.3564	23.277		
3546	6	M	1.6226	0.4419	27.234	0.3793	23.376		
	10	F	1.5126	0.3273	21.638	0.3550	23.470		
3547	6	M	1.4517	0.3239	22.312	0.3827	26.362		
	7	F	1.3869	0.3343	24.104	0.3582	25.827		
3548	2	M	1.5685	0.3662	23.347	0.5282	33.675		
	9	F	1.5315	0.2989	19.517	0.4246	27.724		
3549	2	M	1.6042	0.4282	26.692	0.4164	25.957		
	8	F	1.5253	0.3449	22.612	0.4253	27.883		
3550	7	M	1.5579	0.2227	14.295	0.2234	14.340		
	13	F	1.5527	0.3180	20.480	0.3543	22.818		
3551	5	M	1.6458	0.3949	23.994	0.4535	27.555		
	14	F	1.4841	0.2593	17.472	0.3728	25.120		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
4526	6	M	1.5900	0.2610	16.415	0.3437	21.616		
	13	F	1.5093	0.2536	16.802	0.2959	19.605		
4527	2	M	1.6845	0.2989	17.744	0.3947	23.431		
	10	F	1.5719	0.2577	16.394	0.3715	23.634		
4528	5	M	1.5686	0.3223	20.547	0.3162	20.158		
	11	F	1.4889	0.2670	17.933	0.3539	23.769		
4529	3	M	1.6241	0.3153	19.414	0.2591	15.953		
	15	F	1.5165	0.2907	19.169	0.3411	22.493		
4530	3	M	1.5800	0.2314	14.646	0.2733	17.297		
	7	F	1.4575	0.2425	16.638	0.3562	24.439		
4531	3	M	1.5429	0.3105	20.124	0.3014	19.535		
	9	F	1.4720	0.3094	21.019	0.3167	21.515		
4532	8	M	1.6124	0.4105	25.459	0.4977	30.867		
	11	F	1.5440	0.3080	19.948	0.3749	24.281		
4533	6	M	1.4033	0.3446	24.556	0.3006	21.421		
	9	F	1.4734	0.3914	26.564	0.2759	18.725		
4534	4	M	1.6063	0.3910	24.342	0.3234	20.133		
	12	F	1.5083	0.2976	19.731	0.3687	24.445		
4535	6	M	1.5830	0.2355	14.877	0.3228	20.392		
	15	F	1.5242	0.2357	15.464	0.3881	25.463		
4536	6	M	1.6077	0.3940	24.507	0.4485	27.897		
	9	F	1.5048	0.2562	17.026	0.3505	23.292		
4537	2	M	1.5821	0.2514	15.890	0.2224	14.057		

## APPENDIX Y F1 GENERATION

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

## INDIVIDUAL PUP ORGAN WEIGHT (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Final Body Weight	BRAIN		SPLEEN		THYMUS	
				Weight	Ratio	Weight	Ratio	Weight	Ratio
4537	(continued)								
	9	F	1.5349	0.3574	23.285	0.3401	22.158		
4539	3	M	1.6141	0.2813	17.428	0.2915	18.060		
	8	F	1.5236	0.3069	20.143	0.4142	27.186		
4540	6	M	1.5921	0.3782	23.755	0.4326	27.172		
	12	F	1.5358	0.3555	23.148	0.4391	28.591		
4541	3	M	1.5188	0.3050	20.082	0.2143	14.110		
	12	F	1.4771	0.3549	24.027	0.3694	25.008		
4542	2	M	1.5190	0.3666	24.134	0.5598	36.853		
	7	F	1.5489	0.2422	15.637	0.4369	28.207		
4545	6	M	1.5021	0.3198	21.290	0.4134	27.521		
	11	F	1.4356	0.2223	15.485	0.3621	25.223		
4546	4	M	1.5617	0.3026	19.376	0.3637	23.289		
	10	F	1.4631	0.2413	16.492	0.3731	25.501		
4547	2	M	1.5124	0.3743	24.749	0.3504	23.168		
	13	F	1.5273	0.2870	18.791	0.3658	23.951		
4548	1	M	1.4496	0.2164	14.928	0.2596	17.908		
	12	F	1.5342	0.2643	17.227	0.3383	22.051		
4549	6	M	1.5552	0.2918	18.763	0.3282	21.103		
	10	F	1.5510	0.2864	18.466	0.2909	18.756		
4550	8	M	1.5266	0.2512	16.455	0.3516	23.032		
	12	F	1.5166	0.2872	18.937	0.3565	23.507		

	Individual Animal Gross and Microscopic Observations Preface	Appendix Z
--	--	------------

**Key to Abbreviations**

GI = Gland  
Oviducts/Fallop = Oviducts/Fallopian

**Notes**

1. Unless otherwise specified in a histopathology note, the organ/tissue examined was the required (routine) section.
2. The dimensions of gross lesions are presented as a general range based on the actual dimensions noted during macroscopic examinations. The actual dimensions of gross lesions can be found in the raw data.
3. For summarization purposes, descriptive comments [i.e., location of scab(s) and/or sore(s), etc.] are not presented in this appendix. These data are contained in the study raw data if needed.

**Corresponding exposure levels for each group were as follows:**

Group 1 - 0 mg/m<sup>3</sup>  
Group 2 - 2,000 mg/m<sup>3</sup>  
Group 3 - 10,000 mg/m<sup>3</sup>  
Group 4 - 20,000 mg/m<sup>3</sup>

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice PHASE DAY OF DEATH: 113	SEX: Male PHASE: Dosing phase	ANIMAL: 1032 GROUP: 1
--	----------------------------------	--------------------------

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl . . . .	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.
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      Right Epididymis      Pituitary gland      Prostate      Seminal vesicles  
     Right Testis

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
 Inhalation Reproduction Toxicity Study in Rats  
 Individual Animal Gross and Microscopic Observations

```

-----
                STATUS: Final phase sacrifice                SEX: Male                ANIMAL: 1033
PHASE DAY OF DEATH: 113                PHASE: Dosing phase                GROUP: 1
    
```

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored, All lobes, Tan, Foci, <= 0.1 cm, Moderate	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, BILATERAL, Minimal.
Prostate . . . . .	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATE, Slight.  INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands    Coagulating Gl    Right Epididymis    Pituitary gland    Seminal vesicles  
 Right Testis

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

---

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1034
PHASE DAY OF DEATH: 113	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.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Right Epididymis    Lungs                    Pituitary gland    Prostate  
Seminal vesicles    Right Testis

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
                  STATUS: Final phase sacrifice  SEX: Male  ANIMAL: 1035  
PHASE DAY OF DEATH: 113  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.

-----

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Right Epididymis    Lungs                      Pituitary gland    Prostate  
Seminal vesicles    Right Testis



Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1037
PHASE DAY OF DEATH: 113	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Prostate . . . . .	No gross observations on tissue.	INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Coagulating Gl	Right Epididymis	Lungs	Pituitary gland
Seminal vesicles	Right Testis			

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

```
-----
STATUS: Final phase sacrifice             SEX: Male                               ANIMAL: 1039
PHASE DAY OF DEATH: 114                  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.

Lungs . . . . . No gross observations on tissue.
                                      INTERSTITIUM: SUBACUTE/CHRONIC
                                      INFLAMMATION, Minimal.
-----
```

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Right Epididymis    Pituitary gland    Prostate                  Seminal vesicles  
Right Testis

Gasoline DIPE 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 PHASE DAY OF DEATH: 114	SEX: Male PHASE: Dosing phase ANIMAL: 1041 GROUP: 1
Coagulating G1 . . . .	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.
Lungs . . . . .	No gross observations on tissue.	Tissue is unremarkable (with comment). - One lobe is partially atelectatic.
Prostate . . . . .	No gross observations on tissue.	INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands Right Epididymis Pituitary gland Seminal vesicles Right Testis

11-Jan-10; 18:19  
Huntingdon Life Sciences, Inc. 004205

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

---

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 1043
PHASE DAY OF DEATH: 114	PHASE: Dosing phase	GROUP: 1

---

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored/ (post-fixation observation)	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, BILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Coagulating G1    Right Epididymis    Pituitary gland    Prostate  
Seminal vesicles    Right Testis

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
 Inhalation Reproduction Toxicity Study in Rats  
 Individual Animal Gross and Microscopic Observations

```

-----
                STATUS: Final phase sacrifice                SEX: Male                ANIMAL: 1044
PHASE DAY OF DEATH: 114                PHASE: Dosing phase                GROUP: 1
-----

```

```

-----
Tissue                Gross Observations/Comments                Microscopic Observations/Comments
-----

```

```

Prostate . . . . . No gross observations on tissue.
                                     INTRALUMENAL CELLULAR DEBRIS +/-
                                     MINERALIZATION, Minimal.
-----

```

Tissues without comment under Gross Observations were within normal limits at necropsy.  
 The following tissues were unremarkable microscopically:  
     Adrenal Glands   Coagulating Gl   Right Epididymis   Lungs                              Pituitary gland  
     Seminal vesicles   Right Testis



Gasoline DIPE 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
Lungs . . . . .	Discolored, All lobes, Tan, Foci, <= 0.1 cm, Slight	Tissue is unremarkable. Examined; no correlation found
	Discolored, Right diaphragmatic lobe, Red, Foci, <= 0.1 cm, Slight	Examined; no correlation found
Prostate . . . . .	No gross observations on tissue.	MONONUCLEAR CELL INFILTRATE, Slight.  INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:

- Adrenal Glands
- Coagulating Gl
- Right Epididymis
- Pituitary gland
- Seminal vesicles
- Right Testis





Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
                        STATUS: Final phase sacrifice  SEX: Male  ANIMAL: 4032  
PHASE DAY OF DEATH: 113  PHASE: Dosing phase  GROUP: 4  
-----

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Coagulating Gl . . . .	No gross observations on tissue.	Tissue is unremarkable; one-of-pair missing.
Lungs . . . . .	Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.  - One lobe is partially atelectatic.
Thymus . . . . .	Discolored, Red, Foci, </= 0.1 cm, Slight/ Both lobes	Examined; 1 correlation found: CONGESTION, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:  
Adrenal Glands Right Epididymis Pituitary gland Prostate Seminal vesicles  
Right Testis







Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
STATUS: Final phase sacrifice                      SEX: Male                                      ANIMAL: 4039  
PHASE DAY OF DEATH: 114                              PHASE: Dosing phase                              GROUP: 4  
-----

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Prostate . . . . .	No gross observations on tissue.	INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

- The following tissues were unremarkable microscopically:
- |                  |                |                  |       |                 |
|------------------|----------------|------------------|-------|-----------------|
| Adrenal Glands   | Coagulating Gl | Right Epididymis | Lungs | Pituitary gland |
| Seminal vesicles | Right Testis   |                  |       |                 |

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

---

STATUS: Final phase sacrifice	SEX: Male	ANIMAL: 4043
PHASE DAY OF DEATH: 114	PHASE: Dosing phase	GROUP: 4
-----	-----	-----
Tissue	Gross Observations/Comments	Microscopic Observations/Comments
-----	-----	-----
Prostate . . . . .	No gross observations on tissue.	INTRALUMENAL CELLULAR DEBRIS +/- MINERALIZATION, Slight.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands	Coagulating Gl	Right Epididymis	Lungs	Pituitary gland
Seminal vesicles	Right Testis			







Gasoline DIPE 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: 1526
 PHASE DAY OF DEATH: 124                                     PHASE: Dosing phase                    GROUP: 1
-----

```

```

-----
Tissue                    Gross Observations/Comments      Microscopic Observations/Comments
-----
Lungs . . . . .      Discolored, All lobes, Tan, Foci, </= 0.1   Examined; 1 correlation found:
                                               ALVEOLAR/INTRAALVEOLAR MACROPHAGES,
                                               Minimal.

Oviducts/Fallop . . . . No gross observations on tissue.

                                               LUMEN: MONONUCLEAR CELLS, UNILATERAL,
                                               Minimal.
-----

```

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands    Ovaries            Pituitary gland    Uterus            Vagina

Gasoline DIPE 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: 1529
PHASE DAY OF DEATH: 122	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 | Lungs  | Oviducts/Fallop | Ovaries | Pituitary gland |
| Uterus         | Vagina |                 |         |                 |

Gasoline DIPE 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: 1535  
PHASE DAY OF DEATH: 121          PHASE: Dosing phase          GROUP: 1  
-----
```

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Pituitary gland . . . .	No gross observations on tissue.	PARS DISTALIS: CYST(S), Present.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES WITH BROWN PIGMENT, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands   Lungs   Oviducts/Fallop   Ovaries   Vagina







Gasoline DIPE 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: 1543
PHASE DAY OF DEATH: 122	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Adrenal Glands . . . .	No gross observations on tissue.	CONGESTION, BILATERAL, Minimal.
Lungs . . . . .	Discolored, All lobes, Tan, Foci, 0.2 - 0.5 cm, Slight	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.
Oviducts/Fallop . . . .	No gross observations on tissue.	LUMEN: MONONUCLEAR CELLS, BILATERAL, Minimal.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES WITH BROWN PIGMENT, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Ovaries	Pituitary gland	Vagina
---------	-----------------	--------

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
STATUS: Final phase sacrifice  
PHASE DAY OF DEATH: 123

SEX: Female  
PHASE: Dosing phase

ANIMAL: 1544  
GROUP: 1  
-----

-----  
Tissue                                  Gross Observations/Comments                                  Microscopic Observations/Comments  
-----

Adrenal Glands . . . . .  
Discolored, Right, Red, Slight

Examined; 1 correlation found:  
CORTEX: INFARCT, UNILATERAL, Focal,  
Marked.

Lungs . . . . . No gross observations on tissue.

INTERSTITIUM: SUBACUTE/CHRONIC  
INFLAMMATION, Minimal.

ALVEOLAR/INTRAALVEOLAR MACROPHAGES,  
Minimal.

- One lobe is partially atelectatic.

Pituitary gland . . . . . No gross observations on tissue.

Tissue is unremarkable (with comment).

- Gland is fragmented.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Oviducts/Fallop    Ovaries                                  Uterus                                  Vagina





Gasoline DIPE 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: 1550
PHASE DAY OF DEATH: 121	PHASE: Dosing phase	GROUP: 1

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Oviducts/Fallop . . . .	No gross observations on tissue.	LUMEN: MONONUCLEAR CELLS, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Lungs            Ovaries            Pituitary gland    Uterus  
Vagina

Gasoline DIPE 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: 4527
	PHASE DAY OF DEATH: 127	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 | Lungs  | Oviducts/Fallop | Ovaries | Pituitary gland |
| Uterus         | Vagina |                 |         |                 |

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
STATUS: Final phase sacrifice  
PHASE DAY OF DEATH: 121

SEX: Female  
PHASE: Dosing phase

ANIMAL: 4528  
GROUP: 4

-----

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored, All lobes, Tan, Foci, </= 0.1 cm, Slight	Examined; 1 correlation found: INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION, UNILATERAL, Focal, Minimal.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES 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 Oviducts/Fallop Ovaries Pituitary gland Vagina

Gasoline DIPE 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: 4532
PHASE DAY OF DEATH: 123                PHASE: Dosing phase                GROUP: 4
-----
```

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored, All lobes, Tan, Foci, </= 0.1 cm, Moderate	Examined; 1 correlation found: ALVEOLAR/INTRAALVEOLAR MACROPHAGES, Minimal.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES WITH BROWN PIGMENT, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
 The following tissues were unremarkable microscopically:  
 Adrenal Glands    Oviducts/Fallop    Ovaries                    Pituitary gland    Vagina

11-Jan-10; 18:19  
Huntingdon Life Sciences, Inc. 004205

Page 542

Gasoline DIPE 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: 4533  
PHASE DAY OF DEATH: 122                          PHASE: Dosing phase                  GROUP: 4  
-----

Tissue                  Gross Observations/Comments                  Microscopic Observations/Comments  
-----

Uterus . . . . . No gross observations on tissue.  
  MURAL HISTIOCYTES WITH BROWN PIGMENT,  
  BILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.

The following tissues were unremarkable microscopically:

Adrenal Glands  Lungs                  Oviducts/Fallop  Ovaries                  Pituitary gland  
Vagina

Gasoline DIPE 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
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    Oviducts/Fallop    Ovaries            Pituitary gland    Uterus  
Vagina

Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
STATUS: Humane/Otherwise Specified                   SEX: Female   ANIMAL: 4538  
PHASE DAY OF DEATH: 106                                PHASE: Dosing phase                                    GROUP: 4  
-----

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Nose/Turbinates . . . .	Abnormal Contents, Red, Material	Examined; 1 correlation found: LUMEN: HEMORRHAGE, UNILATERAL, Moderate.
	Discolored, Red, Material/ left frontal, 1 cm dia	Examined; 2 correlations found: SUBMUCOSAL HEMORRHAGE, UNILATERAL, Slight. SOFT TISSUE: HEMORRHAGE, BILATERAL, Marked.
	Swollen	Examined; 1 correlation found: SOFT TISSUE: HEMORRHAGE, BILATERAL, Marked.  MAXILLA: FRACTURE, BILATERAL, Present.  PERIODONTAL HEMORRHAGE, BILATERAL, Moderate.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES WITH BROWN PIGMENT, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands   Lungs                Oviducts/Fallop   Ovaries               Pituitary gland



Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats  
Individual Animal Gross and Microscopic Observations

-----  
STATUS: Humane/Otherwise Specified                      SEX: Female                      ANIMAL: 4538  
PHASE DAY OF DEATH: 106                      PHASE: Dosing phase                      GROUP: 4  
-----

Tissue                      Gross Observations/Comments                      Microscopic Observations/Comments  
-----

Vagina

Gasoline DIPE 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
Lungs . . . . .	No gross observations on tissue.	PERIVASCULAR GRANULOCYTIC INFILTRATE, Minimal.
Uterus . . . . .	No gross observations on tissue.	MURAL HISTIOCYTES WITH BROWN PIGMENT, UNILATERAL, Minimal.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Oviducts/Fallop    Ovaries            Pituitary gland    Vagina

Gasoline DIPE 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: 4541  
PHASE DAY OF DEATH: 123                   PHASE: Dosing phase     GROUP: 4  
-----
```

```
-----  
Tissue          Gross Observations/Comments              Microscopic Observations/Comments  
-----  
Lungs . . . . . Discolored, All lobes, Tan, Foci, < /= 0.1   Examined; 1 correlation found:  
cm, Slight      ALVEOLAR/INTRAALVEOLAR MACROPHAGES,  
Minimal.  
  
Oviducts/Fallop . . . . No gross observations on tissue.      LUMEN: MONONUCLEAR CELLS, UNILATERAL,  
Slight.  
  
Uterus . . . . . No gross observations on tissue.      MURAL HISTIOCYTES WITH BROWN PIGMENT,  
UNILATERAL, Minimal.  
-----
```

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands Ovaries Pituitary gland Vagina

Gasoline DIPE 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: 4546
PHASE DAY OF DEATH: 122                     PHASE: Dosing phase        GROUP: 4
-----

```

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored, All lobes, Tan, Foci, < /= 0.1 cm, Slight	Tissue is unremarkable (with comment). Examined; no correlation found  - One lobe is atelectatic.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
 The following tissues were unremarkable microscopically:  
 Adrenal Glands    Oviducts/Fallop    Ovaries    Pituitary gland    Uterus  
 Vagina

Gasoline DIPE 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: 4550
PHASE DAY OF DEATH: 122	PHASE: Dosing phase	GROUP: 4

Tissue	Gross Observations/Comments	Microscopic Observations/Comments
Lungs . . . . .	Discolored, All lobes, White, Foci, 0.2 - 0.5 cm, Slight	Tissue is unremarkable. Examined; no correlation found
Ovaries . . . . .	No gross observations on tissue.	CYST, UNILATERAL, Present.

Tissues without comment under Gross Observations were within normal limits at necropsy.  
The following tissues were unremarkable microscopically:  
Adrenal Glands    Oviducts/Fallop    Pituitary gland    Uterus                      Vagina

**AUDITED FINAL REPORT****Study Phase: Sperm Analysis****Test Site Phase Reference Number 93075132****Testing Facility Study Number 00-4205****Sponsor Reference Number 211-DIPE-1G****Gasoline DIPE Vapor Condensate:  
A One-Generation Whole-Body Inhalation Reproduction  
Toxicity Study in Rats****TEST SITE:**

Charles River Laboratories, Pathology Associates - Maryland  
15 Worman's Mill Court, Suite I  
Frederick, MD 21701

**TESTING FACILITY:**

Huntington 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

**09-APR-2009**

Page 1 of 14

TABLE OF CONTENTS

<u>Section</u>	<u>Page No.</u>
I. QUALITY ASSURANCE STATEMENT .....	4
II. MATERIALS AND METHODS .....	5
A. Sample Collection.....	5
B. Sperm Motility Evaluation.....	5
C. Caudal Epididymis Weight and Total Sperm Count Determination .....	6
D. Sperm Morphology Evaluation.....	6
E. Statistical Analyses.....	6
F. GLP Compliance Statement.....	7
G. Sample and Data Archiving.....	7
III. RESULTS .....	7
A. Sperm Motility.....	7
B. Total Sperm Count.....	7
C. Sperm Morphology.....	8
D. Caudal Epididymis Weight.....	8
IV. DISCUSSION AND CONCLUSIONS .....	8
V. REFERENCES .....	9

INDEX OF TABLES AND APPENDICES

Table Page No.

1. Summary of Male Reproductive Parameters ..... 10

Appendix Page No.

A. Individual Caudal Epididymis Weight,  
Sperm Motility and Sperm Count Data ..... 11

B. Individual Sperm Morphology Data ..... 13



I. QUALITY ASSURANCE STATEMENT

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

Study Number: 00-4205

QUALITY ASSURANCE STATEMENT

This sperm analysis project has been inspected and audited by the Pathology Associates (PA) 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 Research Scientist/ PA Management</u>	<u>Date Findings Reported to Study Director/Study Director Management</u>
24-Dec-2002	Sperm Motility	24-Dec-2002	24-Dec-2002
14,15-Jan-2003	Individual Animal Data	15-Jan-2003	15-Jan-2003
14,15-Jan-2003	Draft Sperm Analysis Report	15-Jan-2003	15-Jan-2003
29-Mar-2009	Final Sperm Analysis Report	31-Mar-2009	02-Apr-2009

Thomas W. Dalton

Thomas W. Dalton

Senior Quality Assurance Auditor

10-Apr-2009

Date

Gasoline DIPE 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 F<sub>1</sub> litters were weaned. 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 Pathology Associates, A Division of Charles River Laboratories, Inc. (formerly known as Pathology Associates International until January 8, 2001), Frederick, MD. 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, homogenization-resistant testicular spermatid count, sperm morphology and caudal epididymis weight.

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. 12.1c) 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.

### 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 µl 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 µm deep Cell-Vu glass slide which was loaded into the Hamilton Thorne IVOS (Ver. 12.1c) analyzer. Twenty fields were automatically selected by the analyzer for each animal and the number of homogenization-resistant 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 subsequent and 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 IBM<sup>TM</sup> compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

#### 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  $-70^{\circ}\text{C}$  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 90% and 93% for the control and high-exposure groups, respectively. There was one animal each in the control (animal 1026) and high-exposure (animal 4026) group for which sperm motility images were not recorded due to a technical problem with the IVOS sperm analyzer. There was one animal (animal 1048) in the control group with no motile sperm. Animal 1034 in the control group had fewer than 25 sperm cells counted and was excluded from the group mean.

#### B. Total Sperm Count

Table 1 (Summary Data)  
Appendix A (Individual Data)

The number of sperm per gram of caudal epididymis and the number of spermatids per gram of testis were comparable between the control and high-exposure groups. Group mean values were 831.6 and 927.9 million sperm/gram for the epididymal sperm count and 101.2 and 103.9 million sperm/gram for the homogenization-resistant testicular count.

C. Sperm Morphology

Table 1 (Summary Data)  
Appendix B (Individual Data)

A statistically significant decrease in the percent abnormal sperm was noted in the high-exposure group. A reduction in this parameter is not considered biologically meaningful and is attributed to two control animals (animals 1034 and 1048) that had an abnormally elevated percentage of abnormal sperm.


D. Caudal Epididymis Weight

Table 1 (Summary Data)  
Appendix A (Individual Data)

A statistically significant increase in the caudal epididymis weight was observed in the high-exposure group. An increase in this parameter is not considered biologically meaningful. Group mean values were 0.26 and 0.27 grams for the control and high-exposure groups, respectively.

IV. DISCUSSION AND CONCLUSIONS

Mean percent motility, epididymal sperm count, homogenization-resistant testicular spermatid count, sperm morphology and caudal epididymis weight were not affected by treatment with Gasoline DIPE Vapor Condensate at an exposure level of 20,000 mg/m<sup>3</sup>. No biologically meaningful differences were observed between the study groups.

  
\_\_\_\_\_  
Jeffrey A. Smith, M.S.  
Research Scientist  
Charles River Laboratories  
Pathology Associates - Maryland

10-Apr-2009  
Date

V. REFERENCES

- Dunlap, W.P., Marx, M.S. and Agamy, G.G. 1981. Fortran IV functions for calculating probabilities associated with Dunnett's test. *Behav. Res. Methods and Instrumentation* 13: 363-366.
- Dunnett, C. W. 1955. A multiple comparison procedure for comparing several treatments with a control. *Journal of the American Statistical Association* 50:1096-1121.
- Dunnett, C. W. 1964. New tables for multiple comparisons with a control. *Biometrics* 20:482-491.
- Kruskal, W.H. and Wallis, W.A. 1952. Use of ranks in one-criterion variance analysis. *Journal of the American Statistical Association* 47: 583-621.
- Kruskal, W.H. and Wallis, W.A. 1953. Errata for Kruskal-Wallis (1952). *Journal of the American Statistical Association* 48: 907-911.
- Kruskal, W.H. 1957. Historical notes on the Wilcoxon unpaired two-sample test. *Journal of the American Statistical Association* 52: 356-360.
- SAS/STAT User's Guide, 1989a. SAS Institute Inc., Version 6, Fourth Edition, Cary, NC:SAS Institute Inc., 1989. Vol. 1, p. 209-244. Vol. 2 p. 1195-1210.

HLS STUDY NO.: 00-4205

TABLE 1

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

SUMMARY OF MALE REPRODUCTIVE PARAMETERS

Group:	I	IV
Exposure Level:    GDIPVC <sup>a</sup> (mg/m <sup>3</sup> )	0	20,000
<hr/>		
MOTILITY (%)		
Mean	90	93
SD	20	6
N	24	25
EPIDIDYMAL COUNT (MILLION SPERM/GRAM)		
Mean	831.6	927.9
SD	189.1	177.2
N	26	26
TESTICULAR COUNT (MILLION SPERM/GRAM)		
Mean	101.2	103.9
SD	16.1	12.0
N	26	26
SPERM MORPHOLOGY <sup>b</sup> (% ABNORMAL)		
Mean	7.4	0.4*
SD	23.5	0.5
N	26	26
CAUDAL EPIDIDYMIS WEIGHTS (GRAM)		
Mean	0.26	0.27*
SD	0.03	0.02
N	26	26

<sup>a</sup>GASOLINE DIPE VAPOR CONDENSATE.<sup>b</sup>MEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

\*SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP (p&lt;0.05).

HLS STUDY NO.: 00-4205

## APPENDIX A

GASOLINE DIPE VAPOR CONDENSATE:  
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATSINDIVIDUAL CAUDAL EPIDIDYMIS WEIGHT,  
SPERM MOTILITY AND SPERM COUNT DATAGroup I: 0 mg/m<sup>3</sup> (GASOLINE DIPE 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
1026	0.21	<sup>a</sup>	956.0	105.2
1027	0.30	94	794.7	104.6
1028	0.26	97	764.1	109.9
1029	0.27	95	650.6	108.1
1030	0.29	99	973.5	107.1
1031	0.19	87	1012.6	132.1
1032	0.28	91	952.3	96.6
1033	0.25	98	639.9	81.8
1034	0.23	0 <sup>b</sup>	363.7	62.1
1035	0.27	93	832.6	89.1
1036	0.27	87	677.7	104.0
1037	0.22	96	945.8	123.6
1038	0.26	95	631.4	105.3
1039	0.21	97	1080.5	101.0
1040	0.29	99	894.2	94.4
1041	0.27	96	855.9	92.1
1042	0.22	85	632.1	101.5
1043	0.26	78	876.7	99.8
1044	0.23	94	1113.8	100.2
1045	0.24	99	975.9	105.2
1046	0.28	96	1116.6	71.7
1047	0.24	94	758.1	107.2
1048	0.29	0 <sup>c</sup>	501.2	131.7
1049	0.32	88	937.8	77.6
1050	0.28	98	952.3	113.8
1051	0.23	98	731.9	104.6

<sup>a</sup>TECHNICAL ERROR; SPERM MOTILITY IMAGES WERE NOT SAVED.<sup>b</sup>FEWER THAN 25 SPERM CELLS COUNTED IN 5 FIELDS ANALYZED; EXCLUDED FROM STATISTICAL ANALYSIS.<sup>c</sup>FEWER THAN 50 SPERM CELLS COUNTED IN 5 FIELDS ANALYZED.



HLS STUDY NO.: 00-4205

## APPENDIX A

GASOLINE DIPE VAPOR CONDENSATE:  
A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION TOXICITY STUDY IN RATSINDIVIDUAL CAUDAL EPIDIDYMIS WEIGHT,  
SPERM MOTILITY AND SPERM COUNT DATAGroup IV: 20,000 mg/m<sup>3</sup> (GASOLINE DIPE 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
4026	0.26	<sup>a</sup>	896.8	109.9
4027	0.30	94	798.2	101.7
4028	0.26	89	929.0	102.8
4029	0.30	97	885.3	96.9
4030	0.25	92	807.2	86.1
4031	0.27	79	542.2	113.4
4032	0.26	90	969.2	100.6
4033	0.30	99	864.4	121.4
4034	0.26	94	916.9	125.5
4035	0.30	76	798.2	118.5
4036	0.25	94	924.3	107.1
4037	0.30	88	1017.8	77.8
4038	0.27	98	747.4	89.5
4039	0.30	98	996.8	87.2
4040	0.27	99	844.3	116.4
4041	0.26	96	925.0	93.9
4042	0.25	97	1535.0	109.2
4043	0.29	97	1139.4	100.4
4044	0.25	93	1012.2	99.6
4045	0.34	98	1125.6	94.2
4046	0.25	96	836.5	117.1
4047	0.26	85	1065.7	91.0
4048	0.27	92	848.1	113.5
4049	0.26	98	756.1	106.7
4050	0.25	96	974.5	107.4
4051	0.29	95	969.9	112.4

<sup>a</sup>TECHNICAL ERROR; SPERM MOTILITY IMAGES WERE NOT SAVED.

HLS STUDY NO.: 00-4205

## APPENDIX B

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

INDIVIDUAL SPERM MORPHOLOGY DATA

Group I: 0 mg/m<sup>3</sup> (GASOLINE DIPE VAPOR CONDENSATE)

Animal No.	Normal	-----H e a d-----				-----T a i l-----			Other
		Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	
1026	200	0	0	0	0	0	0	0	0
1027	199	1	0	0	0	0	0	0	0
1028	197	3	0	0	0	0	0	0	0
1029	200	0	0	0	0	0	0	0	0
1030	199	0	1	0	0	0	0	0	0
1031	200	0	0	0	0	0	0	0	0
1032	197	2	1	0	0	0	0	0	0
1033	198	2	0	0	0	0	0	0	0
1034	19	181	0	0	0	0	0	0	0
1035	199	1	0	0	0	0	0	0	0
1036	197	3	0	0	0	0	0	0	0
1037	200	0	0	0	0	0	0	0	0
1038	200	0	0	0	0	0	0	0	0
1039	196	2	2	0	0	0	0	0	0
1040	199	1	0	0	0	0	0	0	0
1041	200	0	0	0	0	0	0	0	0
1042	197	3	0	0	0	0	0	0	0
1043	200	0	0	0	0	0	0	0	0
1044	196	4	0	0	0	0	0	0	0
1045	197	2	1	0	0	0	0	0	0
1046	200	0	0	0	0	0	0	0	0
1047	199	1	0	0	0	0	0	0	0
1048	32	168	0	0	0	0	0	0	0
1049	194	6	0	0	0	0	0	0	0
1050	200	0	0	0	0	0	0	0	0
1051	199	0	1	0	0	0	0	0	0

HLS STUDY NO.: 00-4205

## APPENDIX B

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

INDIVIDUAL SPERM MORPHOLOGY DATA

Group IV: 20,000 mg/m<sup>3</sup> (GASOLINE DIPE VAPOR CONDENSATE)

Animal No.	Normal	-----H e a d-----				-----T a i l-----			Other
		Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	
4026	200	0	0	0	0	0	0	0	0
4027	199	1	0	0	0	0	0	0	0
4028	200	0	0	0	0	0	0	0	0
4029	198	2	0	0	0	0	0	0	0
4030	199	0	1	0	0	0	0	0	0
4031	199	1	0	0	0	0	0	0	0
4032	200	0	0	0	0	0	0	0	0
4033	200	0	0	0	0	0	0	0	0
4034	199	1	0	0	0	0	0	0	0
4035	200	0	0	0	0	0	0	0	0
4036	198	2	0	0	0	0	0	0	0
4037	200	0	0	0	0	0	0	0	0
4038	200	0	0	0	0	0	0	0	0
4039	200	0	0	0	0	0	0	0	0
4040	199	1	0	0	0	0	0	0	0
4041	200	0	0	0	0	0	0	0	0
4042	199	1	0	0	0	0	0	0	0
4043	198	1	1	0	0	0	0	0	0
4044	200	0	0	0	0	0	0	0	0
4045	200	0	0	0	0	0	0	0	0
4046	199	1	0	0	0	0	0	0	0
4047	200	0	0	0	0	0	0	0	0
4048	196	4	0	0	0	0	0	0	0
4049	198	2	0	0	0	0	0	0	0
4050	200	0	0	0	0	0	0	0	0
4051	200	0	0	0	0	0	0	0	0

	Certificates of Analysis	Appendix BB
--	--------------------------	-------------

- 1. Feed Certificates of Analysis..... 565
- 2. Water Certificates of Analysis ..... 579
- 3. Bedding Certificates of Analysis..... 591



## Return to Certified Analysis Retrieval

Product Code: 5002M  
 Product Desc: CERTIFIED RODENT DIET MEAL  
 Lab Number: L0212525-1  
 Lot Code: FEB 15 02 1A  
 Entered: 2/19/2002

Assay	Analysis	Units
PROTEIN	21	%
FAT (ACID HYDRO)	5.62	%
FIBER (CRUDE)	3.92	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.062	PPM
CALCIUM	0.830	%
LEAD	0.177	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.685	%
SELENIUM	0.308	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0213378-1  
 Lot Code: MAR 04 02 3A  
 Entered: 3/7/2002

Assay	Analysis	Units
PROTEIN	21.2	%
FAT (ACID HYDRO)	5.57	%
FIBER (CRUDE)	4.38	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.061	PPM
CALCIUM	0.775	%
LEAD	0.194	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.675	%
SELENIUM	0.215	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0213378-3  
 Lot Code: MAR 04 02 3C  
 Entered: 3/7/2002

Assay	Analysis	Units
PROTEIN	21.2	%
FAT (ACID HYDRO)	5.74	%
FIBER (CRUDE)	4.47	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.064	PPM
CALCIUM	0.729	%
LEAD	0.186	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.661	%
SELENIUM	0.220	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0214256-1  
 Lot Code: MAR 23 02 2A  
 Entered: 3/26/2002

Assay	Analysis	Units
PROTEIN	21.2	%
FAT (ACID HYDRO)	6.02	%
FIBER (CRUDE)	4.57	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.068	PPM
CALCIUM	0.871	%
LEAD	0.181	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.698	%
SELENIUM	0.270	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0214732-1  
 Lot Code: APR 02 02 1A  
 Entered: 4/4/2002

Assay	Analysis	Units	
PROTEIN	21.2	%	
FAT (ACID HYDRO)	5.37	%	
FIBER (CRUDE)	4.58	%	
ARSENIC	0.863	PPM	
CADMIUM	0.054	PPM	
CALCIUM	0.764	%	
LEAD	0.196	PPM	
MERCURY	LESS THAN 0.025	PPM	
PHOSPHORUS	0.628	%	
SELENIUM	0.278	PPM	
<b>Organophosphates PPM</b>			
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		
<b>Chlorinated Hydrocarbons and PCB PPM</b>			
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	

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0215581-3  
 Lot Code: APR 18 02 1C  
 Entered: 4/22/2002

Assay	Analysis	Units
PROTEIN	21	%
FAT (ACID HYDRO)	5.76	%
FIBER (CRUDE)	4.53	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.053	PPM
CALCIUM	0.850	%
LEAD	0.121	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.600	%
SELENIUM	0.317	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0216387-2  
 Lot Code: MAY 03 02 1B  
 Entered: 5/7/2002

Assay	Analysis	Units
PROTEIN	21.3	%
FAT (ACID HYDRO)	5.97	%
FIBER (CRUDE)	4.84	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.063	PPM
CALCIUM	0.789	%
LEAD	0.198	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.563	%
SELENIUM	0.311	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0216981-2  
 Lot Code: MAY 15 02 1B  
 Entered: 5/17/2002

Assay	Analysis	Units
PROTEIN	21.6	%
FAT (ACID HYDRO)	5.98	%
FIBER (CRUDE)	4.65	%
ARSENIC	<0.200	PPM
CADMIUM	LESS THAN 0.05	PPM
CALCIUM	0.901	%
LEAD	0.186	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.632	%
SELENIUM	0.276	PPM

Organophosphates	PPM	Organophosphates	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.11
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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0216981-3  
 Lot Code: MAY 15 02 1C  
 Entered: 5/17/2002

Assay	Analysis	Units
PROTEIN	21.6	%
FAT (ACID HYDRO)	6	%
FIBER (CRUDE)	4.07	%
ARSENIC	<0.200	PPM
CADMIUM	LESS THAN 0.05	PPM
CALCIUM	0.910	%
LEAD	0.189	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.629	%
SELENIUM	0.305	PPM

Organophosphates	PPM	Organophosphates	PPM
Diazinon	LESS THAN 0.02	Disulfoton	LESS THAN 0.02
Ethion	LESS THAN 0.02	Malathion	0.09
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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0217564-3  
 Lot Code: JUN 01 02 3C  
 Entered: 6/3/2002

Assay	Analysis	Units
PROTEIN	21.4	%
FAT (ACID HYDRO)	5.72	%
FIBER (CRUDE)	4.53	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.073	PPM
CALCIUM	1.01	%
LEAD	0.173	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.684	%
SELENIUM	0.292	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0218648-2  
 Lot Code: JUN 20 02 3C  
 Entered: 6/24/2002

Assay	Analysis	Units
PROTEIN	21.3	%
FAT (ACID HYDRO)	5.58	%
FIBER (CRUDE)	4.46	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.073	PPM
CALCIUM	0.977	%
LEAD	0.188	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.729	%
SELENIUM	0.247	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0219103-1  
 Lot Code: JUL 01 02 2A  
 Entered: 7/2/2002

Assay	Analysis	Units
PROTEIN	21.5	%
FAT (ACID HYDRO)	5.27	%
FIBER (CRUDE)	4.57	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.053	PPM
CALCIUM	0.874	%
LEAD	0.213	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.677	%
SELENIUM	0.288	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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
-----------	------------	-----------------

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0219670-2  
 Lot Code: JUL 10 02 3B  
 Entered: 7/12/2002

Assay	Analysis	Units
PROTEIN	21.5	%
FAT (ACID HYDRO)	5.83	%
FIBER (CRUDE)	4.35	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.133	PPM
CALCIUM	0.889	%
LEAD	0.18	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.634	%
SELENIUM	0.160	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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

No notes.

Approved by: Angela Crutcher

*Angela Crutcher*

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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: L0219670-3  
 Lot Code: JUL 10 02 3C  
 Entered: 7/12/2002

Assay	Analysis	Units
PROTEIN	21.2	%
FAT (ACID HYDRO)	5.93	%
FIBER (CRUDE)	4.28	%
ARSENIC	LESS THAN 0.2	PPM
CADMIUM	0.132	PPM
CALCIUM	0.839	%
LEAD	0.181	PPM
MERCURY	LESS THAN 0.025	PPM
PHOSPHORUS	0.624	%
SELENIUM	0.298	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		

Chlorinated Hydrocarbons and PCB	PPM	Chlorinated Hydrocarbons 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

No notes.

Approved by: Angela Crutcher

For additional information, please contact:

- 1) Customer Service at (314) 982-1310 -- for assay methodology
- 2) For Nutritional Interpretation - Dr. Carrie Schultz, (314)974-6529 or Dr. Brittany Vester Boler, (765)894-3104
- 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.

## Analysis Report



Page 1 of 2

Lancaster Laboratories Sample No. PW 3795210

Collected: 03/27/2002 09:20 by GA

Account Number: 02698

Submitted: 03/27/2002 16:28

Huntingdon Life Sciences

Reported: 04/11/2002 at 21:09

PO Box 2360

Discard: 04/26/2002

Mettlers Road

#7 V-1 Room 708 Grab Water Sample

East Millstone NJ 08875-2360

Animal Drinking Water

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	N.D.	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	0.108	0.0024	mg/l	1
00307	Heterotrophic Plate Count	n.a.	N.D.	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 A 100g sample was analyzed for Pseudomonas aeruginosa. The result was Negative.	n.a.	See Below		See Below	n.a.
06477	Total Coliform Total Coliform E. coli	n.a. Negative Negative	See Below /100ml /100ml	1.	/100ml	n.a.

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. PA011

Laboratory Chronicle

REVIEWED  
In 19 Apr 02



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

2216 Rev. 9/11/00

**Analysis Report**

Page 2 of 2

Lancaster Laboratories Sample No. PW 3795210

Collected: 03/27/2002 09:20 by GA

Account Number: 02698

Submitted: 03/27/2002 16:28

Reported: 04/11/2002 at 21:09

Discard: 04/26/2002

#7 V-1 Room 708 Grab Water Sample

Huntingdon Life Sciences

PO Box 2360

Mettlers Road


East Millstone NJ 08875-2360

Animal Drinking Water

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	EPA 200.9	1	04/03/2002 10:47	Jessica L Boyd	1
01753	Copper	EPA 200.7	1	04/07/2002 16:18	Julie A Slaughenhaupt	1
00307	Heterotrophic Plate Count	Standard Methods, 19th ed 1995	1	03/27/2002 19:15	Earl R Custer	n.a.
00564	Pseudomonas aeruginosa	Reference: USP, 23 rd Ed 1995	1	03/27/2002 19:15	Earl R Custer	n.a.
06477	Total Coliform	Standard Methods 19th ed, 1995	1	03/27/2002 17:35	Constance D Rhodes	n.a.
05281	Undigested Sample Prep	EPA 200.9	1	03/29/2002 10:10	Denise K Connors	1

**REVIEWED**

m 19 Apr 02

MEMBER  
  
 Lancaster Laboratories, Inc.  
 2425 New Hollana Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 Tel: 717-356-2360 Fax: 717-656-2681

2216 Rev. 9/11/00

# Analysis Report



Page 1 of 2

Lancaster Laboratories Sample No. PW 3886544

Collected: 08/27/2002 10:30 by GA

Account Number: 02698

Submitted: 08/27/2002 16:10  
 Reported: 09/26/2002 at 22:03  
 Discard: 10/11/2002  
 #6 V-1 707 Grab Water Sample

Huntingdon Life Sciences  
 PO Box 2360  
 Mettlers Road  
 East Millstone NJ 08875-2360

Animal Drinking Water

VI707

CAT No.	Analysis Name	CAS Number	As Received		Units	Dilution Factor
			As Received Result	Method Detection Limit		
01055	Lead (furnace method)	7439-92-1	N.D.	0.00072	mg/l	1
	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.					
01753	Copper	7440-50-8	0.0350	0.0026	mg/l	1
	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.					
00307	Heterotrophic Plate Count	n.a.	N.D.	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. PA011

**REVIEWED**  
 m 10 Oct 02

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
01055	Lead (furnace method)	EPA 200.9	1	09/04/2002 10:05		Jessica L Boyd	1
01753	Copper	EPA 200.7	1	08/29/2002 19:48		Lesley A Bensinger	1
00307	Heterotrophic Plate Count	Standard Methods, 19th ed 1995	1	08/27/2002 20:45		Keith A Hoover	n.a.
00564	Pseudomonas aeruginosa	Reference: USP, 23 rd Ed 1995	1	08/28/2002 10:00		Earl R Custer	n.a.
06477	Total Coliform	Standard Methods 19th ed, 1995	1	08/27/2002 19:30		Constance D Rhodes	n.a.
05281	Undigested Sample Prep	EPA 200.9	1	08/29/2002 11:55		Christine Conlin	1



Lancaster Laboratories, Inc.  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717-656-2300 Fax: 717-656-2681

# Analysis Report



Page 2 of 2

Lancaster Laboratories Sample No. PW 3886544

Collected: 08/27/2002 10:30 by GA

Account Number: 02698

Submitted: 08/27/2002 16:10  
Reported: 09/26/2002 at 22:03  
Discard: 10/11/2002  
#6 V-1 707 Grab Water Sample

Huntingdon Life Sciences  
PO Box 2360  
Mettlers Road  
East Millstone NJ 08875-2360

Animal Drinking Water

V1707



Lancaster Laboratories, Inc.  
2425 New Holland Pike  
PO Box 12425  
Lancaster, PA 17605-2425  
717-656-2300 Fax: 717-656-2681

# Analysis Report



Lancaster Laboratories Sample No. PW 3886543

Collected: 08/27/2002 10:20 by GA

Account Number: 02698

Submitted: 08/27/2002 16:10  
 Reported: 09/26/2002 at 22:03  
 Discard: 10/11/2002  
 #5 Inn 805 Grab Water Sample

Huntingdon Life Sciences  
 PO Box 2360  
 Mettlers Road  
 East Millstone NJ 08875-2360

Animal Drinking Water

I-805

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	N.D.	0.00072	mg/l	1
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.						
01753	Copper	7440-50-8	0.678	0.0026	mg/l	1
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.						
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. PA011

**REVIEWED**  
 M 10 Oct 02

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01055	Lead (furnace method)	EPA 200.9	1	09/04/2002 10:00	Jessica L Boyd	1
01753	Copper	EPA 200.7	1	08/29/2002 19:45	Lesley A Bensinger	1
00307	Heterotrophic Plate Count	Standard Methods, 19th ed 1995	1	08/27/2002 20:45	Keith A Hoover	n.a.
00564	Pseudomonas aeruginosa	Reference: USP, 23 rd Ed 1995	1	08/28/2002 10:00	Earl R Custer	n.a.
06477	Total Coliform	Standard Methods 19th ed, 1995	1	08/27/2002 19:30	Constance D Rhodes	n.a.
05281	Undigested Sample Prep	EPA 200.9	1	08/29/2002 11:55	Christine Conlin	1



Lancaster Laboratories, Inc.  
 2425 New Holland Pike  
 PO Box 12425  
 Lancaster, PA 17605-2425  
 717.656.2200 Fax 717.656.2691

# Analysis Report



Page 2 of 2

Lancaster Laboratories Sample No. PW 3886543

Collected: 08/27/2002 10:20 by GA

Account Number: 02698

Submitted: 08/27/2002 16:10  
Reported: 09/26/2002 at 22:03  
Discard: 10/11/2002  
#5 Inn 805 Grab Water Sample

Huntingdon Life Sciences  
PO Box 2360  
Mettlers Road  
East Millstone NJ 08875-2360

Animal Drinking Water

I-805



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 April 8, 2002

General Source Raritan-Millstone Plant

Sample No. 1 Plant Delivered Water - 7:30 a.m. 4-9-02, DD

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	-	52							
Turbidity (NTU)	0.5 NTU	0.17							
Color	10*	2							
Threshold Odor 40 ° C	3 TON*	3.6/1Cc							
Threshold Taste	3 TTN*	3.4							
Conductivity (micromhos / cm)	-	369							
Hardness, Total (as mg / l CaCO3)	250 mg / l*	118							
Alkalinity	-	53							
pH	6.5-8.5*	7.2							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.34							
Calcium (as mg / l CaCO3)	-	80							
Magnesium (as mg / l CaCO3)	-	38							
Iron, Total (mg / l Fe)	0.3 mg / l*	<0.05							
Sulfates (mg / l SO4)	250 mg / l*	63.1							
Chlorides (mg / l Cl)	250 mg / l*	47.6							
Fluoride (mg / l F)	1.2 mg / l	<0.01							
Total Dissolved Solids (mg / l)	500 mg / l*	330							
Total Suspended Solids (mg / l)	-	0.33							
Ammonia Nitrogen (mg / l N)	-	0.06							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.5							
Dissolved Oxygen (mg / l O2)	-	10.5							
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)	-	<0.05							
Manganese (mg / l MN)	-	<0.05							
Chlorine, Free (mg / l)	-	1.9							

**REVIEWED**  
*Tr 20/4/02*

\* Secondary or Recommended MCL

Laboratory Analyst: KK

## Elizabethtown Water Company Physical & Chemical Analyses

Date May 14, 2002General Source Raritan-Millstone PlantSample No. 1 Plant Delivered Water - 7:30 a.m. 5-14-02, DD

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	-	60							
Turbidity (NTU)	0.5 NTU	0.16							
Color	10 *	1							
Threshold Odor 40 ° C	① 3 TON *	3.4/1Cc							
Threshold Taste	3 TTN *	3.4							
Conductivity (micromhos / cm)	-	257							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	76							
Alkalinity	-	33							
pH	6.5-8.5 *	6.8							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.19							
Calcium (as mg / l CaCO3)	-	50							
Magnesium (as mg / l CaCO3)	-	26							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	53.1							
Chlorides (mg / l Cl)	250 mg / l *	23.8							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	200							
Total Suspended Solids (mg / l)	-	0.31							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.0							
Dissolved Oxygen (mg / l O2)	-	9.0							
BOD 5 (mg / l O2)	-	-							
Langelier Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	<0.05							
Hydrogen Sulfide (mg / l H2S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.010							
Phosphate (mg / l PO3)	-	0.18							
Manganese (mg / l MN)	-	<0.05							
Chlorine Residual (mg / l)	-	2.3							

\* Secondary or Recommended MCL

① Taste and odor are not required analyses by Elizabethtown Laboratory Analyst: KK  
m 21 June

**REVIEWED**  
m 21 June

## Elizabethtown Water Company Physical & Chemical Analyses

Date June 4, 2002

General Source Raritan-Millstone Plant

Sample No. 1 Plant Delivered Water - 7:30 a.m. 6-4-02, DD

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	-	73							
Turbidity (NTU)	0.5 NTU	0.20							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	3.1/1Cc							
Threshold Taste	3 TTN *	2.9							
Conductivity (micromhos / cm)	-	360							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	114							
Alkalinity	-	53							
pH	6.5-8.5 *	6.7							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.02							
Calcium (as mg / l CaCO3)	-	76							
Magnesium (as mg / l CaCO3)	-	38							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	62.5							
Chlorides (mg / l Cl)	250 mg / l *	43.6							
Fluoride (mg / l F)	1.2 mg / l	0.20							
Total Dissolved Solids (mg / l)	500 mg / l *	0.62							
Total Suspended Solids (mg / l)	-	348							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	0.9							
Dissolved Oxygen (mg / l O2)	-	8.3							
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)	-	0.15							
Manganese (mg / l MN)	-	<0.05							
Copper (mg / l)	-	2.3							

**REVIEWED**  
*T. J. Sullivan*

\* Secondary or Recommended MCL

Laboratory Analyst: KK

*Ⓞ Odor is not a required analysis for Elizabethtown*

## Elizabethtown Water Company Physical & Chemical Analyses

Date July 9, 2002

General Source Raritan-Millstone Plant  
 Sample No. 1 Plant Delivered Water - 7:45 a.m. 7-9-02, Tom  
 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	-	79							
Turbidity (NTU)	0.5 NTU	0.17							
Color	10 *	1							
Threshold Odor 40 ° C	① 3 TON *	3.4/2Cc							
Threshold Taste	3 TTN *	3.1							
Conductivity (micromhos / cm)	-	315							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	100							
Alkalinity	-	48							
pH	6.5-8.5 *	7.2							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.30							
Calcium (as mg / l CaCO3)	-	70							
Magnesium (as mg / l CaCO3)	-	30							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	44.3							
Chlorides (mg / l Cl)	250 mg / l *	25.7							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	228							
Total Suspended Solids (mg / l)	-	1.14							
Ammonia Nitrogen (mg / l N)	-	<0.05							
Nitrate Nitrogen (mg / l N)	10 mg / l	0.77							
Dissolved Oxygen (mg / l O2)	-	7.7							
BOD 5 (mg / l O2)	-	-							
Langeller Index	+/- 1.0	-							
Surfactants (mg / l LAS)	0.5 mg / l *	<0.05							
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							
Iron (mg / l)	-	1.5							

REVIEWED

\* Secondary or Recommended MCL

① odor and taste are not required analyses in 25 July 02

Laboratory Analyst: MT

## Elizabethtown Water Company Physical & Chemical Analyses

Date August 6, 2002

General Source Raritan-Millstone Plant

S 3 No. 1 Plant Delivered Water - 7:30 a.m. 8-6-02, TL

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	-	83							
Turbidity (NTU)	0.5 NTU	0.19							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON * <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span>	3.3/2Cc							
Threshold Taste	3 TTN *	3.2							
Conductivity (micromhos / cm)	-	284							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	96							
Alkalinity	-	48							
pH	6.5-8.5 *	6.7							
Chlorine, Free / Total (mg / l Cl)	-	<0.05/1.18							
Calcium (as mg / l CaCO3)	-	64							
Magnesium (as mg / l CaCO3)	-	32							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	39.3							
Chlorides (mg / l Cl)	250 mg / l *	23.9							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	240							
Total Suspended Solids (mg / l)	-	0.3							
Ammonia Nitrogen (mg / l N)	-	0.06							
Nitrate Nitrogen (mg / l N)	10 mg / l	0.8							
Dissolved Oxygen (mg / l O2)	-	11.3							
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)	-	0.24							
Manganese (mg / l MN)	-	<0.05							
Total Solids (mg / l)	-	1.7							

**REVIEWED**  
*M 21 Agor*

\* Secondary or Recommended MCL

Laboratory Analyst: KK/AS

Revised 08/05/98

① Odor and taste are not required parameters for EWC.  
*M 21 Agor*

## Elizabethtown Water Company Physical & Chemical Analyses

Date September 10, 2002

Collection Source Raritan-Millstone Plant

Sample No. 1 Plant Delivered Water - 8:30 a.m. 9-10-02, 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	-	77							
Turbidity (NTU)	0.5 NTU	0.10							
Color	10 *	1							
Threshold Odor 40 ° C	3 TON *	3.4/2Cc							
Threshold Taste	3 TTN *	3.1							
Conductivity (micromhos / cm)	-	327							
Hardness, Total (as mg / l CaCO3)	250 mg / l *	110							
Alkalinity	-	54							
pH	6.5-8.5 *	7.1							
Chloride, Free / Total (mg / l Cl)	-	<0.05/1.20							
Calcium (as mg / l CaCO3)	-	80							
Magnesium (as mg / l CaCO3)	-	30							
Iron, Total (mg / l Fe)	0.3 mg / l *	<0.05							
Sulfates (mg / l SO4)	250 mg / l *	46.5							
Chlorides (mg / l Cl)	250 mg / l *	23.2							
Fluoride (mg / l F)	1.2 mg / l	<0.1							
Total Dissolved Solids (mg / l)	500 mg / l *	234							
Total Suspended Solids (mg / l)	-	0.2							
Ammonia Nitrogen (mg / l N)	-	0.13							
Nitrate Nitrogen (mg / l N)	10 mg / l	1.0							
Dissolved Oxygen (mg / l O2)	-	8.3							
BOD 5 (mg / l O2)	-	-							
Langelier Index	+/- 1.0	-1.08							
Surfactants (mg / l LAS)	0.5 mg / l *	-							
Hydrogen Sulfide (mg / l H2S as S)	-	0							
Nitrite Nitrogen (mg / l N)	-	<0.01							
Phosphate (mg / l PO3)	-	0.15							
Manganese (mg / l MN)	-	<0.05							
T.u.C. (mg / l)	-	2.0							

REVIEWED

m z oster

\* Secondary or Recommended MCL

① taste and odor are not required parameters by

Laboratory Analyst: DSD

Elizabethtown m z oster



**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 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

### 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 (DURSBAN)	ND	0.03	
CHLORPYRIFOS-METHYL	ND	0.05	
CIODRIN (CROTOPHOS)	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	
DICROTOPHOS (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 \*



Assuring Quality Worldwide

**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 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 0' COBBS 1/8" & 1/4"	HOSTATHION (TRIAZOPHOS)	ND	0.05
COMPOSITE SAMPLE DK 139 AND DK219	IMAZALIL	ND	0.05
	IMIDAN (PHOSMET)	ND	0.05
	ISOFENPHOS (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 (CRUACRO)	ND	0.05
	PROMETRYNE	ND	0.05
	PROPETAMPHOS (SAFROTIN)	ND	0.05
	RONNEL (FENCHLORFOS)	ND	0.05
	SIMAZINE	ND	0.05
TERBACIL	ND	0.5	
TETRACHLORVINPHOS (GARDONA)	ND	0.05	
THIABENDAZOLE	ND	0.05	
THIONAZIN (ZINOPHOS)	ND	0.05	

ND=NONE DETECTED



**SILLIKER**<sup>SM</sup>

Assuring Quality Worldwide

**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 TEL: 614/ 486 0150 • FAX: 614/ 486 0151

**LABORATORY REPORT**

REPORT NO.	DATE	PAGE
196389	12/01/99	1
PURCHASE ORDER NO.		
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/.

**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,B,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 (BENZANEX)	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	
DICHOLOBENIL (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	

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 \*

**SILLIKER**

Assuring Quality Worldwide

**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 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
	METIBUZIN	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

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.

**SILLIKER**

Assuring Quality Worldwide

**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 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	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 ND*	LIMITS 0.1 PPM 0.2 DETECTED	<0.01 PPM

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 \*



**SILLIKER LABORATORIES OF OHIO**  
1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
TEL: 614/ 486 0150 • FAX: 614/ 486 0151

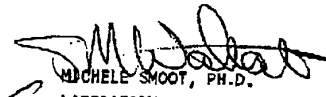
LABORATORY REPORT		
REF ID	DATE	PAGE
197827	12/10/99	1
PURCHASE ORDER		
LOT#		

MR. TED A. WEAVER  
SALES MANAGER  
THE ANDERSON'S, INC.  
480 W. DUSSEL DR.  
P.O. BOX 119  
MALMEE OH 43537

SAMPLES RECEIVED: 12/08/99  
RECEIVED FROM: MALMEE OH  
REISSUED DATE: 1/05/00

### ANALYTICAL RESULTS

SAMPLE DESCRIPTION	AEROBIC PLATE COUNT/G
BED 0 COBS DK 139	<10
BED 0 COBS DK 219	<10

  
MICHELE SHOOT, 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.



Assuring Quality Worldwide

**SILLIKER LABORATORIES OF OHIO**  
 1224 KINNEAR ROAD, SUITE 114 • COLUMBUS, OH 43212  
 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

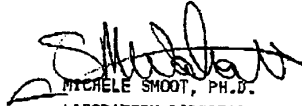
**ANALYTICAL RESULTS**

SAMPLE  
 DESCRIPTION

BED OF COBBS  
 1/8" & 1/4"  
 COMPOSITE SAMPLE  
 DK 139 AND DK219

AFLATOXIN (PPB)		
	TEST LIMIT	RESULT
B1	1 PPB	ND
B2	1 PPB	ND
G1	1 PPB	ND
G2	1 PPB	ND

ND=NONE DETECTED

  
 MICHELE SHOOT, 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.

Appendix CC

**PROTOCOL**

**GASOLINE DIPE VAPOR CONDENSATE**

**A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION  
TOXICITY STUDY IN RATS**

HLS Study No.: 00-4205  
Sponsor Study No.: 211-DIPE-1G  
Protocol No.: Final  
Date: 12 April 2002

Huntingdon Life Sciences Study No. 00-4205  
Sponsor Study No. 211-DIPE-1G

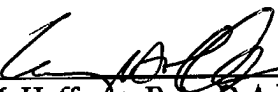
Page 2  
Final Protocol

**PROTOCOL SIGNATURES / PREFACE**

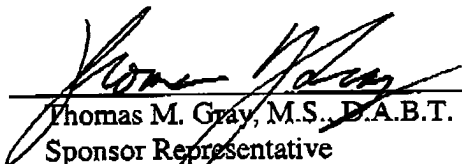
Study Title: Gasoline DIPE Vapor Condensate: A One-Generation Whole-Body  
Inhalation Reproduction Toxicity Study in Rats

HLS Study No.: 00-4205  
Sponsor Study No.: 211-DIPE-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)

*6 May 02*  
\_\_\_\_\_  
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](mailto:grayt@api.com)

*05 May, 2002*  
\_\_\_\_\_  
Date

**STUDY SPECIFIC INFORMATION**

Ship Unused Test Substance and Empty Test Substance Containers to:	Name:	Michael C. Henley
	Sponsor	Chevron Research and Technology Company
	Address:	100 Chevron Way Richmond, CA 94802-0627
	Phone No.:	510-242-3062
	Fax No.:	510-242-5542
	Email	<a href="mailto:Mche@chevron.com">Mche@chevron.com</a>

TABLE OF CONTENTS

<b>1. INTRODUCTION.....</b>	<b>5</b>
<b>2. STUDY PERSONNEL.....</b>	<b>5</b>
<b>3. REGULATORY REFERENCES .....</b>	<b>6</b>
3.1. TEST GUIDELINE.....	6
3.2. GOOD LABORATORY PRACTICES .....	6
3.3. FACILITIES MANAGEMENT/ANIMAL HUSBANDRY .....	6
3.4. ANIMAL WELFARE ACT COMPLIANCE .....	6
3.5. INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE: .....	7
<b>4. QUALITY ASSURANCE MONITORING.....</b>	<b>8</b>
<b>5. ALTERATION OF DESIGN.....</b>	<b>8</b>
<b>6. PROPOSED STUDY DATES.....</b>	<b>8</b>
<b>7. EXPERIMENTAL DESIGN.....</b>	<b>9</b>
<b>8. TEST SUBSTANCE .....</b>	<b>10</b>
8.1. TEST SUBSTANCE:.....	10
8.2. IDENTIFICATION OF TEST SUBSTANCE .....	10
8.3. ARCHIVAL SAMPLES .....	10
8.4. UNUSED TEST SUBSTANCE .....	10
<b>9. TEST ANIMALS .....</b>	<b>10</b>
9.1. SPECIES .....	10
9.2. SUPPLIER .....	11
9.3. JUSTIFICATION FOR TEST SYSTEM SELECTION.....	11
9.4. ANIMAL REQUIREMENTS/SPECIFICATIONS .....	11
9.5. ACCLIMATION PERIOD .....	11
9.6. ANIMAL HUSBANDRY .....	11
9.7. ANIMAL HUSBANDRY DURING EXPOSURE.....	13
9.8. SELECTION FOR STUDY .....	14
9.9. ANIMAL IDENTIFICATION .....	14
<b>10. MATING, GESTATION AND LACTATION PROCEDURES .....</b>	<b>14</b>
10.1. ESTROUS CYCLING:.....	14
10.2. MATING PROCEDURE.....	14
10.3. PARTURITION AND LACTATION.....	15
<b>11. TEST SUBSTANCE ADMINISTRATION.....</b>	<b>15</b>
11.1. ROUTE OF ADMINISTRATION.....	15
11.2. JUSTIFICATION FOR ROUTE OF ADMINISTRATION .....	15



11.3.	JUSTIFICATION FOR EXPOSURE LEVEL SELECTION .....	15
11.4.	FREQUENCY AND DURATION OF INHALATION ADMINISTRATION .....	15
11.5.	TEST SUBSTANCE ADMINISTRATION .....	16
11.6.	EXPOSURE CONCENTRATION DETERMINATION .....	16
11.7.	PARTICLE SIZE DISTRIBUTION ANALYSIS .....	17
11.8.	CHAMBER ENVIRONMENT .....	17
11.9.	SUMMARY OF CHAMBER ACTIVITY .....	17
<b>12.</b>	<b>EXPERIMENTAL EVALUATIONS.....</b>	<b>17</b>
12.1.	OBSERVATIONS .....	17
12.2.	BODY WEIGHTS .....	18
12.3.	FEED CONSUMPTION.....	19
12.4.	LITTER EVALUATIONS (F <sub>1</sub> ).....	19
<b>13.</b>	<b>POSTMORTEM.....</b>	<b>20</b>
13.1.	MACROSCOPIC POSTMORTEM EXAMINATION .....	20
<b>14.</b>	<b>PRESERVATION OF RECORDS AND SPECIMENS.....</b>	<b>26</b>
<b>15.</b>	<b>STATISTICAL EVALUATIONS .....</b>	<b>26</b>
15.1.	CONTINUOUS DATA.....	26
15.2.	INCIDENCE DATA.....	27
<b>16.</b>	<b>REPORT.....</b>	<b>28</b>
16.1.	STATUS REPORT .....	28
16.2.	FINAL REPORT.....	28
<b>17.</b>	<b>REFERENCES.....</b>	<b>30</b>

## 1. INTRODUCTION

HLS Study No.	00-4205
Sponsor Study No.	211-DIPE-1G
Study Title	Gasoline DIPE 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, M.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 1<sup>st</sup> 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 test substance or 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:	6 May 2002
Initiation of exposures: (Experimental start date)	20 May 2002
Termination of exposures:	28 September 2002
Submission of audited draft report:	29 January 2003
Experimental termination:	Date of last data collection (Date final report is signed by Pathologist)
Study completion date:	Date final report is signed by Study Director

**7. EXPERIMENTAL DESIGN**

Group	Group Designation	Exposure Levels (mg/m <sup>3</sup> ) <sup>a</sup>	Number of Animals				
			Mated Adults		Microscopic Pathology Adult Generations <sup>b</sup>		Macroscopic Postmortem Examinations-Pups
			P <sub>0</sub>		P <sub>0</sub>		F <sub>1</sub>
			M	F	M	F	
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

<sup>a</sup> Exposures daily (7 days/week) for 6 hours per day.

<sup>b</sup> 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 DIPE 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 (P<sub>0</sub>)**

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 suspended, stainless steel wire mesh 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 P<sub>0</sub> 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. During mating, cohabitation of male and female littermates will be prohibited.

### 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 (00-6130). 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:** P<sub>0</sub> males and females will receive 70 consecutive days (ten weeks) of exposure prior to mating for six hours/day. P<sub>0</sub> 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 P<sub>0</sub> females will be exposed daily until weaning of the F<sub>1</sub> offspring on Day 28. P<sub>0</sub> females with no confirmed day of mating will continue to be exposed for 25 days following completion of the mating period. P<sub>0</sub> females with a confirmed day of mating that do not deliver will be euthanized on presumed day 25 of gestation.

P<sub>0</sub> males will be exposed daily until euthanasia. P<sub>0</sub> males will be euthanized proximate to the date that the last F<sub>1</sub> 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<sub>99</sub> 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 30-40 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 pre-mating 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:

P<sub>0</sub>: One week pretest and during the exposure period of the P<sub>0</sub> group weekly during the pre-mating 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:

P<sub>0</sub>: One week pretest and during the exposure period of the P<sub>0</sub>. Weekly during the pre-mating 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 (F<sub>1</sub>)

#### 12.4.1. OBSERVATIONS

F<sub>1</sub> 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 F<sub>1</sub> generation (to determine the sex). All F<sub>1</sub> 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 F<sub>1</sub> litter with more than 10 pups will be culled to that number with sex distribution equalized (five/sex) when possible. F<sub>1</sub> pups will be culled randomly. Preferential culling of runts will not be performed.



#### **12.4.3. PHYSICAL EXAMINATIONS**

Each F<sub>1</sub> pup will be given a 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 F<sub>1</sub> 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 (P<sub>0</sub>)**

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.

##### **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 (P<sub>0</sub>)

P<sub>0</sub> males will be euthanized proximate to the date that the last F<sub>1</sub> 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 (P<sub>0</sub>)

All P<sub>0</sub> 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 P<sub>0</sub> females, which were co-housed with P<sub>0</sub> 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 P<sub>0</sub> males and females in each group:

<b>P<sub>0</sub> Males</b>	<b>P<sub>0</sub> Females</b>
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 (gonads will also be weighed separately). 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**

The following tissues will be obtained at necropsy and preserved for all parental animals:

<b>Males</b>	<b>Females</b>
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 00-6130)	

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. F<sub>1</sub> PUPS AND WEANLINGS**

**13.1.2.1. Method of Euthanasia**

F<sub>1</sub> pups and weanlings will be euthanized by exsanguination following anesthesia with inhaled carbon dioxide.

#### **13.1.2.2. Moribund Animals**

F<sub>1</sub> 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 (F<sub>1</sub>)**

F<sub>1</sub> pups found dead at birth will be identified as stillborn or alive but found dead (lung floatation test). F<sub>1</sub> 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 F<sub>1</sub> pups will be examined for external abnormalities. If unremarkable, these pups will then be euthanized via IP injection of sodium pentobarbital and discarded. Culled F<sub>1</sub> 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 (F<sub>1</sub>)**

##### **Macroscopic Examination and Tissues Preserved**

F<sub>1</sub> 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**

F<sub>1</sub> 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 F<sub>1</sub> pups, if any, will be examined for external abnormalities. If unremarkable, these pups will then be euthanized via carbon dioxide asphyxiation and discarded. Remaining F<sub>1</sub> 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 P<sub>0</sub> 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 into a Hamilton Thorne IVOS sperm analyzer. Five fields will be selected and stored as digital images. These images will be analyzed for percent motility and transferred to optical media for permanent storage.
- 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 P<sub>0</sub> 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  $\mu\text{m}$  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 P<sub>0</sub> animals will be performed by HLS. Quantitative evaluations of the P<sub>0</sub> 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)<sup>a</sup>
- Body weight change<sup>a</sup>
  - 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)<sup>a</sup>

- premating growth period (weekly)
- postmating 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)<sup>a</sup>
- Gestation length <sup>a</sup>
- Pup body weights (all recorded intervals during lactation)<sup>a</sup>
- Number of pups (live, dead, total) at birth and during lactation (days 1, 4, 7, 14, 21 and 28)<sup>a</sup>
- Mean sperm count (homogenization-resistant testicular sperm and caudal epididymal sperm) and motility data<sup>b</sup>

<sup>a</sup> 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.

<sup>b</sup> 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 x 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 (prematuring, postmaturing [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 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.

Protocol Amendment No. 1

Study Title: Gasoline DIPE Vapor Condensate: A 1-Generation Whole-Body  
 Inhalation Reproduction Toxicity Study in Rats

Changes

1. Good Laboratory Practices, page 6:

Revise: 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' **and Pathology Associates International's** Standard Operating Procedures.

2. Frequency and Duration of Inhalation Administration, page 15:

Revise: **P<sub>0</sub> females with no confirmed day of mating but with evidence of pregnancy (weight gain) will continue to be exposed until the presumed Day 19 of gestation. P<sub>0</sub> females with no confirmed day of mating and with NO evidence of pregnancy (weight gain) would continue to be exposed for 25 days following completion of the mating period and then euthanized.**

3. Detailed Physical Examinations, page 18:

Revise: .....During the exposure period, physical examinations will be performed post-exposure **except they will be performed pre-exposure during the gestation and lactation periods.**

4. Terminal Necropsy Males, page 21:

Revise: P<sub>0</sub> males will be euthanized **after proximate to the date that the last F<sub>1</sub> litters have been delivered weaned.**

5. 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.**

6. Statistical Evaluations/Continuous Data, page 26:

Add: **Estrous Cycle data<sup>a</sup>**

7. Statistical Analysis, pages 27-28:

Revise footnote 'a' to read as follows:

**For all parameters, the standard one-way analysis of variance (ANOVA) using the F ratio to assess significance will be used (Dunlap and Duffy, 1975). If significant differences among the means are indicated, additional testing will be performed using Dunnet's t-test to determine which means are significantly different from the control**

## Protocol Amendment No. 1

**(Dunlap et al., 1981). All t-tests will be conducted at the 5% and 1% significance levels.**

Revise footnote 'b' to read as follows:

**Mean sperm count and motility data will be compared between groups using the Kruskal-Wallis nonparametric ANOVA test (Kruskal and Wallis, 1952, 1953). 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).**

Incidence Data Analysis:


Revise: ~~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 A Fisher Exact Test with Bonferonni correction will be performed to identify differences between the groups.~~

Reasons for Changes

---

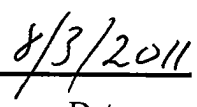
1. Clarification of responsibilities for the Subcontractor.
  2. Clarification of procedures.
  3. Clarification of procedures.
  4. Clarification of procedures.
  5. Clarification of procedures.
  6. Oversight in original protocol.
  7. Clarification of statistical procedures.
- 

Amendment approved by:

  
\_\_\_\_\_  
Gary M. Hoffman, B.A., DABT  
Study Director

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Thomas M. Gray, M.S., DABT  
Sponsor Representative

  
\_\_\_\_\_  
8/3/2011  
Date

	Historical Control Data Preface	Appendix DD
--	------------------------------------	-------------

CD Rat - Mating, Fertility and Gestation ..... 631  
CD Rat - Summary of Mean Pup Organ Weights ..... 632

	Historical Control Data CD Rat - Mating, Fertility and Gestation	Appendix DD
--	---	-------------

Study ID	Initiation Date	Females						
		Paired w/ Males No.	Mated No.	Mating Index %	Pregnant No.	Fertility Index %	No. with Liveborn No.	Gestation Index %
00-4202	22-Aug-01	26	26	100	24	92.3	24	100
00-4203	21-Jan-02	26	26	100	25	96.2	25	100
00-4204	19-Mar-02	26	26	100	25	96.2	25	100
00-4206	20-Aug-02	26	24	92.3	21	87.5	21	100
00-4207 P0	30-Apr-01	26	25	96.2	24	96	24	100
00-4207 F1		26	25	96.2	25	100	25	100
00-4208 P0	12-Jun-01	26	24	92.3	23	95.8	23	100
00-4208 F1		26	23	88.5	21	91.3	21	100
		<b>MEAN</b>	<b>25</b>	<b>95.7</b>	<b>24</b>	<b>94.4</b>	<b>24</b>	<b>100.0</b>
		<b>SD</b>	<b>1</b>	<b>4.3</b>	<b>2</b>	<b>3.9</b>	<b>2</b>	<b>-</b>
		<b>N</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>
		<b>MIN</b>	<b>23</b>	<b>88.5</b>	<b>21</b>	<b>87.5</b>	<b>21</b>	<b>100.0</b>
		<b>MAX</b>	<b>26</b>	<b>100.0</b>	<b>25</b>	<b>100.0</b>	<b>25</b>	<b>100.0</b>

Males	Historical Control Data CD Rat - Summary of Mean Pup Organ Weights	Appendix DD
-------	---	-------------

Study ID		TBW (g)	Brain		Spleen			Thymus		
			Wt. (g)	ORG/TBW (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)
00-4202	Mean	82.3	1.5825	1.9312	0.3245	0.3951	20.514	0.3586	0.4392	22.655
	S.D.	6.4	0.0629	0.1263	0.0500	0.0588	3.142	0.0547	0.0512	3.381
	N	22	22	22	22	22	22	22	22	22
00-4203	Mean	81.8	1.6118	1.9785	0.3445	0.4210	21.381	0.3673	0.4499	22.754
	S.D.	6.8	0.0713	0.1305	0.0477	0.0472	2.845	0.0887	0.1105	5.300
	N	25	25	25	25	25	25	25	25	25
00-4204	Mean	77.3	1.5633	2.0568	0.3173	0.4135	20.303	0.3514	0.4542	22.378
	S.D.	11.8	0.0905	0.2632	0.0517	0.0550	3.196	0.0771	0.0633	4.168
	N	13	13	13	13	13	13	13	13	13
00-4206	Mean	80.2	1.5485	1.9522	0.3380	0.4231	21.822	0.3570	0.4443	22.987
	S.D.	9.8	0.0990	0.2116	0.0515	0.0528	3.068	0.0691	0.0614	3.914
	N	20	20	20	20	20	20	20	20	20
00-4207	Mean	72.7	1.5939	2.2127	0.2792	0.3850	17.589	0.3238	0.4471	20.489
	S.D.	8.1	0.1572	0.2845	0.0491	0.0613	3.031	0.0788	0.1076	5.486
	N	23	23	23	23	23	23	23	23	23
00-4208	Mean	75.6	1.5634	2.0757	0.3218	0.4258	20.582	0.3322	0.4389	21.234
	S.D.	5.6	0.0591	0.1267	0.0484	0.0589	3.031	0.0600	0.0718	3.687
	N	22	22	22	22	22	22	22	22	22
<b>Overall</b>	<b>Mean</b>	<b>78.4</b>	<b>1.5797</b>	<b>2.0343</b>	<b>0.3211</b>	<b>0.4100</b>	<b>20.349</b>	<b>0.3483</b>	<b>0.4451</b>	<b>22.051</b>
	<b>S.D.</b>	<b>8.6</b>	<b>0.0970</b>	<b>0.2157</b>	<b>0.0533</b>	<b>0.0571</b>	<b>3.293</b>	<b>0.0729</b>	<b>0.0820</b>	<b>4.464</b>
	<b>N</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

TBW=Terminal Body Weight; ORG=Organ Weight



Females	Historical Control Data CD Rat - Summary of Mean Pup Organ Weights	Appendix DD
---------	---	-------------

Study ID		TBW (g)	Brain		Spleen			Thymus		
			Wt. (g)	ORG/TBW (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)
00-4202	Mean	76.7	1.5323	2.0070	0.2884	0.3741	18.875	0.3836	0.5005	25.068
	S.D.	5.5	0.0671	0.1472	0.0681	0.0702	4.548	0.0468	0.0486	3.049
	N	22	22	22	22	22	22	22	22	22
00-4203	Mean	75.1	1.5506	2.0750	0.3043	0.4041	19.597	0.3459	0.4384	22.301
	S.D.	6.4	0.0631	0.1576	0.0559	0.0606	3.307	0.0466	0.1045	2.830
	N	25	25	25	25	25	25	25	25	25
00-4204	Mean	68.4	1.4423	2.1509	0.2905	0.4296	20.168	0.3468	0.5089	24.529
	S.D.	11.5	0.1499	0.3410	0.0588	0.0771	3.510	0.0808	0.0917	8.364
	N	13	13	13	13	13	13	13	13	13
00-4206	Mean	73.9	1.5185	2.0712	0.3023	0.4107	19.934	0.3484	0.4700	22.918
	S.D.	7.0	0.0805	0.1894	0.0440	0.0545	2.928	0.0588	0.0550	3.650
	N	20	20	20	20	20	20	20	20	20
00-4207	Mean	67.4	1.5015	2.2454	0.2440	0.3613	16.388	0.3253	0.4869	21.854
	S.D.	6.9	0.1191	0.2698	0.0473	0.0564	3.713	0.0884	0.1423	6.683
	N	23	23	23	23	23	23	23	23	23
00-4208	Mean	69.9	1.5284	2.1971	0.2831	0.4058	18.506	0.3420	0.4891	22.349
	S.D.	5.9	0.0688	0.1724	0.0428	0.0573	2.541	0.0607	0.0805	3.704
	N	22	22	22	22	22	22	22	22	22
<b>Overall</b>	<b>Mean</b>	<b>72.2</b>	<b>1.5181</b>	<b>2.1232</b>	<b>0.2849</b>	<b>0.3950</b>	<b>18.8008</b>	<b>0.3485</b>	<b>0.4796</b>	<b>23.044</b>
	<b>S.D.</b>	<b>7.7</b>	<b>0.0946</b>	<b>0.2243</b>	<b>0.0563</b>	<b>0.0647</b>	<b>3.6457</b>	<b>0.0655</b>	<b>0.0950</b>	<b>4.858</b>
	<b>N</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

TBW=Terminal Body Weight; ORG=Organ Weight

Combined	Historical Control Data CD Rat - Summary of Mean Pup Organ Weights	Appendix DD
----------	---	-------------

Study ID		TBW (g)	Brain		Spleen			Thymus		
			Wt. (g)	ORG/TBW (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)	WT (g)	ORG/TBW (%)	ORG/BRAIN (%)
00-4202	Mean	79.5	1.5574	1.9691	0.3064	0.3846	19.694	0.3711	0.4698	23.862
	S.D.	4.9	0.0538	0.1141	0.0498	0.0494	3.371	0.0405	0.0353	2.678
	N	22	22	22	22	22	22	22	22	22
00-4203	Mean	78.5	1.5812	2.0267	0.3244	0.4120	20.489	0.3566	0.4442	22.528
	S.D.	6.0	0.0561	0.1306	0.0467	0.0465	2.769	0.0607	0.0832	3.606
	N	25	25	25	25	25	25	25	25	25
00-4204	Mean	72.9	1.5028	2.1039	0.3039	0.4216	20.235	0.3491	0.4816	23.454
	S.D.	11.2	0.0909	0.2906	0.0526	0.0621	3.167	0.0701	0.0556	5.198
	N	13	13	13	13	13	13	13	13	13
00-4206	Mean	77.0	1.5335	2.0117	0.3202	0.4169	20.878	0.3527	0.4572	22.953
	S.D.	7.5	0.0829	0.1836	0.0374	0.0435	2.398	0.0563	0.0471	3.298
	N	20	20	20	20	20	20	20	20	20
00-4207	Mean	70.1	1.5477	2.2290	0.2616	0.3731	16.989	0.3246	0.4670	21.171
	S.D.	6.9	0.1082	0.2357	0.0423	0.0525	2.746	0.0732	0.1140	4.782
	N	23	23	23	23	23	23	23	23	23
00-4208	Mean	72.8	1.5459	2.1364	0.3024	0.4158	19.544	0.3371	0.4640	21.792
	S.D.	4.8	0.0504	0.1348	0.0391	0.0510	2.453	0.0501	0.0682	3.115
	N	22	22	22	22	22	22	22	22	22
<b>Overall</b>	<b>Mean</b>	<b>75.3</b>	<b>1.5489</b>	<b>2.0787</b>	<b>0.3030</b>	<b>0.4025</b>	<b>19.575</b>	<b>0.3484</b>	<b>0.4623</b>	<b>22.548</b>
	<b>S.D.</b>	<b>7.5</b>	<b>0.0771</b>	<b>0.2001</b>	<b>0.0486</b>	<b>0.0526</b>	<b>3.057</b>	<b>0.0597</b>	<b>0.0735</b>	<b>3.819</b>
	<b>N</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>	<b>125</b>

TBW=Terminal Body Weight; ORG=Organ Weight

	Testing Facility Personnel	Appendix EE
--	----------------------------	-------------

<b>TITLE/DEPARTMENT</b>	<b>NAME/DEGREE</b>
SENIOR VICE PRESIDENT, SAFETY ASSESSMENT	Sylvie J. Gosselin, D.V.M., Ph.D., Diplomate A.C.V.P.
SENIOR DIRECTOR, SAFETY ASSESSMENT	Carol S. Auletta, M.B.A., D.A.B.T., R.A.C.
DIRECTOR, TOXICOLOGY OPERATIONS	Ian Vanterpool, F.I.A.T.
DIRECTOR, PATHOLOGY SERVICES	Barbara A. Litzenberger, B.S., M.T. (ASCP)
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	Ronald L. Brzozowski, B.A., AALAS LAT
VETERINARIAN	Teresa S. Kuszniir, V.M.D.
MANAGER/SUPERVISOR	
Rodent/Inhalation Toxicology and Pharmacy	Ellen H. Whiting, AALAS LAT AALAS LAT
Reproductive Toxicology	Robert A. Faust, B.S.
Analytical Services	Kay Saladdin, B.S.
Histology	Janet Kusisto

	Report Amendments	Appendix FF
--	-------------------	-------------

There are no amendments for this report at this time.